Owners Manual

TEC ELECTRONIC CASH REGISTER

MA-1190-100 SERIES
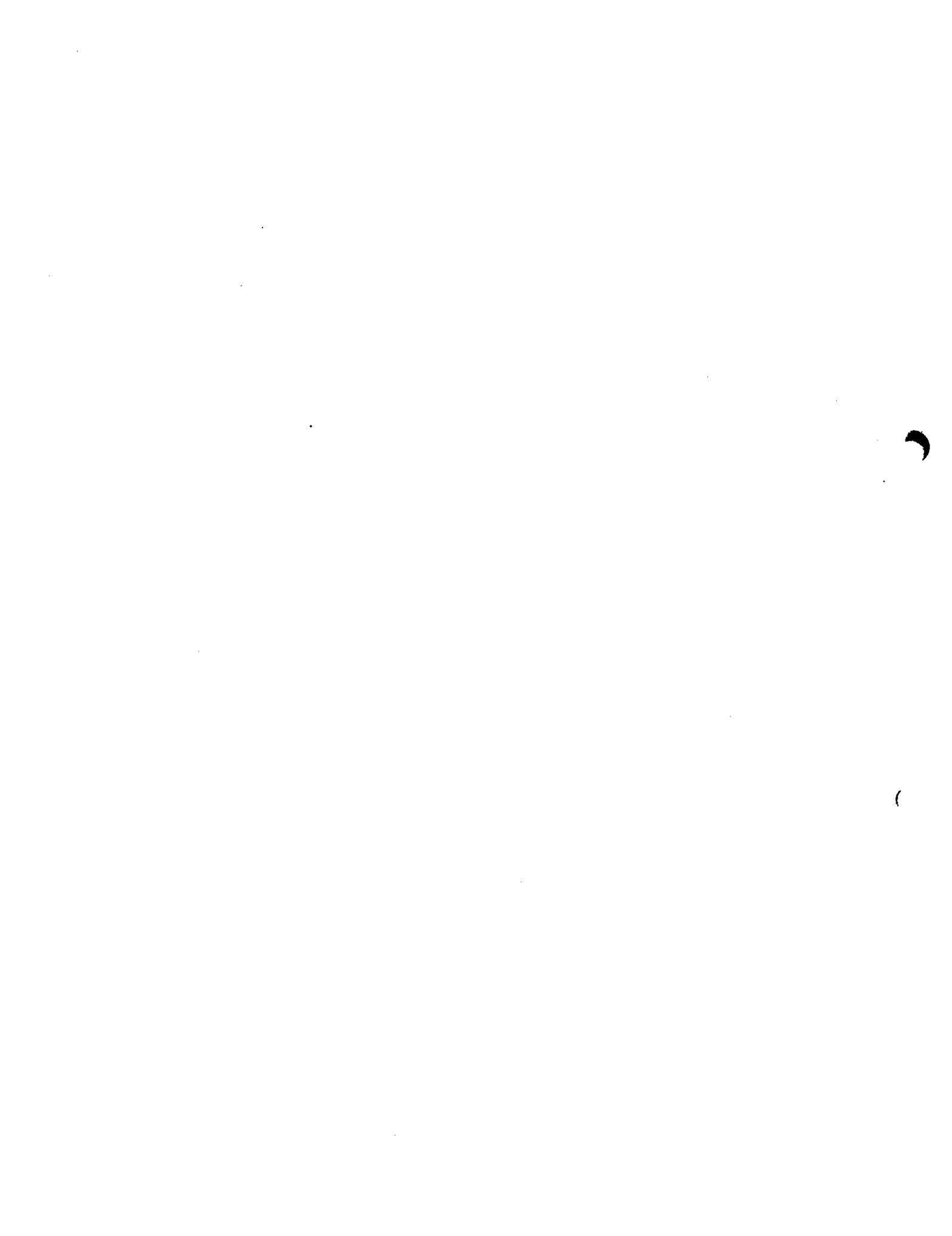
TEC TOKYO ELECTRIC CO., LTD.

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TO OUR CUSTOMERS

Thank you for choosing a TEC electronic cash register MA-1190 series. This instruction manual provides a description of the functions and handling of this register and should be read carefully to obtain maximum performance. Since every consideration has been given to safety, there is no danger of damaging the machine by incorrect operation.

Please refer to this manual whenever you have any doubts concerning the machine. This machine has been manufactured under strict quality control and should give you full satisfaction. However, if the machine is damaged during transit, or there are any unclear points in this manual, please contact your local TEC representative.

[] The specifications described in this manual may be modified by TEC, if necessary.
[] Be sure to keep this manual for future reference.

PRECAUTIONS

1. The keys on the keyboard work with a light touch. Avoid pressing the keys too hard.
2. Avoid handling the machine with wet hands.
3. Do not apply thinner or other volatile oils to the cabinet or other plastic parts. If dirty, wipe off with a piece of cloth soaked in neutral detergent and squeezed tightly.

APPEARANCE AND NOMENCLATURE
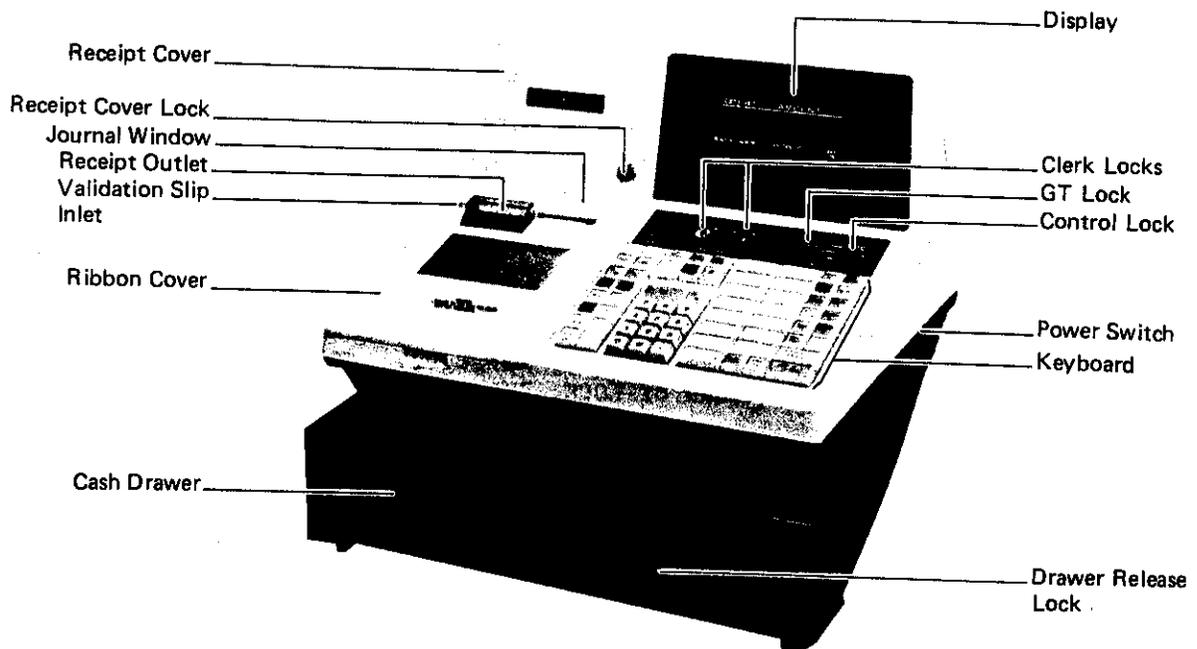
[] **Power Switch** ... The power switch is provided at the righthand side of the cabinet. The AC power is turned on when the switch is pushed to ON, and turned off when the switch is pushed to OFF.

CONTROL LOCKS AND MODE SELECTOR KEYS

MODE LOCK   (POSITION)   (FUNCTION)
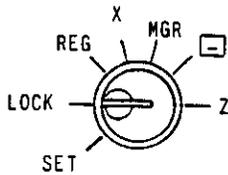
LOCK ..... The register operations are locked when the Mode Lock is set to this position. Displays the current time in the front display.

REG ...... Normal cash register operations are carried out in this mode. However, the operations using the keys that have been programmed to require the "MGR" position cannot be performed in this mode.

X .... The sale totals in memory can be read and the programmed data can be verified in this position.

MGR ...... This position allows to register all normal cash register operations to be carried out in the "REG" mode and the operations using the keys that have been programmed to require the "MGR" position.

⊟ ...... This is the "Negative Mode", which automatically processes all the entries in the reverse way, i.e., positive items into negative, and the negative into positive.

Z .... All the resettable totals and their respective counters in memory will be read <u>and</u> reset in this position.

SET ...... In this position, the register will allow programming operations.
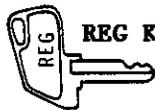
REG Key: The REG Key is used by the clerk or cashier who operates the register. This key can access the positions of LOCK and REG.
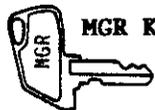
MGR Key: The MGR Key is used by the store manager or a person authorized by the mananger. This key can access the positions of LOCK, REG, X, and MGR.
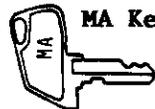
MA Key: The MA Key is used by the store manager who will daily supervise the collection of money and the printout of transactions recorded by the register. This key can access the positions of LOCK, REG, X, MGR, ⊟ , and Z.
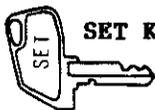
SET Key: The SET Key is used by the programmer. This key can access the positions of LOCK and SET.

The keys may be pulled out or inserted at the "LOCK" or "REG" position.

CLERK LOCKS

These locks are used to identify which clerk is operating the register.
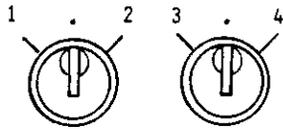
Clerk Keys (CL1, CL2, CL3, CL4)

Each clerk should keep his/her clerk key.

Each of the keys may be inserted and pulled out in the neutral position marked with "." (point).

According to the basic specification of the register, handling of the Clerk Keys will be different:

<u>On a GP-spec Register (usually for general-purpose stores)</u>

Under the GP-spec., one of the Clerk Keys <u>must</u> be set to its ON position. The register will not operate without a clerk key when the Mode Lock is set to the "REG", "MGR", or " $\boxed{-}$ " position.

Under this specification, the ID Code (1 to 99) of the sales person who contributed the sale may (or must) be entered thorugh the [LOG] key before starting to register the sale. (Refer to the [LOG] key description and also to the REGISTERING PROCEDURE FOR SALES section for further instructions.)

<u>On a GR-spec Register (usually for grocery stores)</u>

Under the GR-spec., use or non-use of Clerk Keys in registering sales is the store's choice. The register will operate with or without a clerk key.

Under this sepecification, however, a Cashier Sign-On operation is required for registrations in the "REG", "MGR", or " $\boxed{-}$ " mode. The register will not operate without any cashier being signed-on. (Refer to the [LOG] key description and also to the REGISTERING PROCEDURE FOR SALES section for further instructions.)

GT LOCK
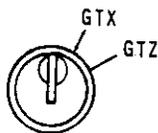
This lock is provided to read or reset the accumulated sales totals not on the daily but on weekly or monthly basis. This lock will not be used for any other purpose than report takings.
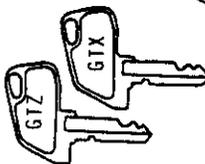
GTX Position may be accessed by the **GTX Key or GTZ Key.**

GTZ Position may be accessed by the **GTZ Key** only.

(Refer to the X AND Z REPORT section for further details.)

NOTE: Please set the GT Lock to the neutral position (marked with ".") with the GTX or GTZ key removed when reports are not being taken.

DISPLAY

The front display is located at the top of the register just above the keyboard. The display has two types of indications -- numeric display and message descriptors.

|←——————————— FRONT DISPLAY ——————————→|

```
 D P T   RPT         A M O U N T
 _____   _____   _____

  0  |    2    |  2  3  4  5  6  7  8
  ▼    ▼    ▼    ▼    ▼    ▼    ▼    ▼    ▼    ▼    ▼
SCALE SLP  ALM  REG  (-)  FS  TXBL  ST   TL   CG  SHORT
                                                  ‾‾‾‾‾
                                                   TRF
```

|←——————— REAR or REMOTE DISPLAY ———————→|
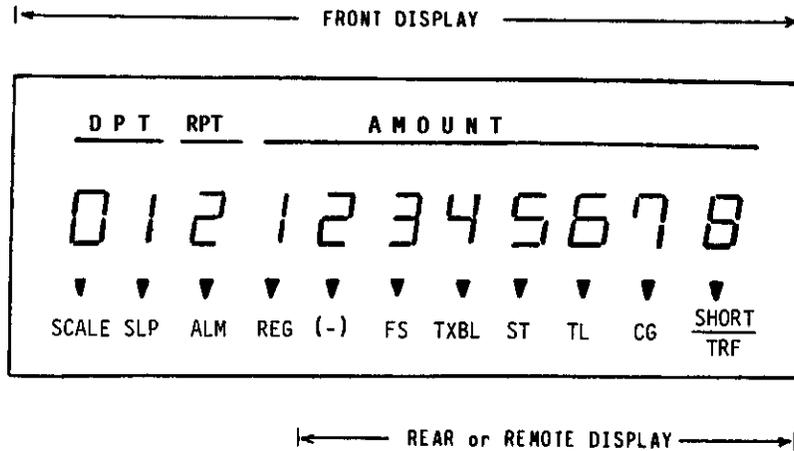
Numeric Display

AMOUNT (8 digits)   Displays the numeric data, such as amount, quantity, etc.

DPT (2 digits)   Displays the code which represents each Department Key. It stays lit when repeating the same department entry.

When a PLU is entered, its linked Department Code is displayed.

When an item of a department which has a Link Department (sub-link dept.) programmed is entered, the sub-link Department Code will be displayed along with the "REG" or "(-)" lamp flickering, indicating that an entry of the sub-link department is compulsory.

When a food stamp tendered is entered and the change due equal to or more than a dollar is resulted, the change amount in food stamps by the unit of dollar (1 to 9) is displayed in the leftmost digit.

RPT (1 digit)   Display the repeat count of the same department. The count is indicated from the second entry on, and only the first digit of the repeat count will be displayed even when the count exceeds nine (such as "0" for 10, "1" for 11, etc.)

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Message Descriptors (Trimark Lamps)

SCALE   Lights up when the connected scale is used to register the scaled item.

SLIP   Lights up when a validation slip is properly inserted to allow validation print.

It flickers to require a validation when the validation compulsion has been programmed on the transaction key just operated. It also flickers to require a remote slip printing when the remote slip compulsion has been programmed on the transaction.

ALM   Lights up with an alarm buzzer to indicate that the last operation or numeric entry has resulted in an error. To clear the error condition, depress the [C] key.

REG   Lights up when a sale item has been registered.
If flickers when a head-department item of a dept-to-dept link is entered, along with the sub-link Department Code displayed in the "DPT" display portion (in the "REG" or "MGR" mode).

(-)   Lights up when a negative item is entered through such keys as [RTN MDSE] or [DOLL DISC].
It also lights up when the subtotal or total amount displayed is negative.
If flickers, as the "REG" lamp, when a head-department item of a dept-to-dept link is entered, along with the sub-link Department Code displayed in the "DPT" display portion (in the "REG" or "MGR" mode).

FS   Lights up when a Department or PLU item which is Food Stampable has been entered.
It also lights up, along with the "ST" lamp lit, when the [FSTL TEND] key is depressed to read the Food Stampable total amount.

TXBL   Lights up when a Department or PLU item which is taxable has been entered.
It also lights up, along with the "ST" lamp lit, when the [TXBL TL] key is depressed to read the taxable total (sale total + taxes due) of the sale.

ST   Lights up when the [ST] key has been depressed, indicating that the displayed amount is subtotal (sale total without taxes).

TL   Lights up on a finalizing operation with the total amount displayed when the sale is finalized without any amount tendered.

CG   When an amount tendering operation has been performed, it lights up with the change due displayed.

SHORT   Lights up when the amount tendered is less than the sale total
TRF   with the shortage amount displayed.
Lights up also when all the sale balance is transferred as the new balance for charge posting.

KEYBOARD LAYOUT

The following are typical keyboard layouts for the MA-1190 series. Since this series is designed to be capable of programming most of the keys to be placed in the desired place on the keyboard, these are merely examples. Please ask your TEC representative if any other alternative or additional keys must be installed, referring to the description of the FUNCTION OF EACH KEY section on the following pages.

GR TYPE (usually for Grocery Stores)

ON
OFF

RF	JF
NS	LOG
SI/M	SI/TL
BTL RTN	RTN MDSE
%+	@/FOR
%-	AMT
PR OPEN	PLU
LC OPEN	

VALI DATE	VOID	ITEM CORR
TARE NO.	SCALE	FS/M

C		TX/M
7	8	9
4	5	6
1	2	3
0	00	.

			CARD NO.	VND CPN
1		9		
2		10	DOLL DISC	EX
3		11	PB+	PB-
4		12	TRF	#
5		13	R/A	PO
6		14	FSTL TEND	Chg
7		15	CHECK TEND	
8	ST	TXBL TL	AT/TL	

GP TYPE (usually for General-Purpose Stores)

ON
OFF

RF	JF
NS	LOG
SI/M	SI/TL
BTL RTN	RTN MDSE
%+	@/FOR
%-	AMT
PR OPEN	PLU
LC OPEN	

VALI DATE	VOID	ITEM CORR
PB+	PB-	#

C		TX/M
7	8	9
4	5	6
1	2	3
0	00	.

			CARD NO.	VND CPN
1		9		
2		10	DOLL DISC	EX
3		11	PO	CREDIT 1
4		12	R/A	CREDIT 2
5		13	TRF	CREDIT 3
6		14	MISC TEND	Chg
7		15	CHECK TEND	
8	ST	TXBL TL	AT/TL	

FUNCTION OF EACH KEY

ON

OFF
RECEIPT

RECEIPT ON/OFF SWITCH ([RECEIPT ON/OFF])

This switch has two positions available -- 'OFF' position and 'ON' position. When in the 'OFF' position, no receipt is issued from the register and sales are printed on the journal roll only. When the switch is set to the 'ON' position, sales are printed on both receipt roll and journal roll, then a receipt is issued which is automatically cut off and given to the customer.

RF

RECEIPT FEED KEY ([RF])

This key is used to advance the receipt roll. It is operated by depressing the key and holding it in that position until the paper has advanced to the required position. This key is effective even when the [RECEIPT ON/OFF] switch is in the 'OFF' position. It can be programmed to prohibit receipt feeding during a sale.

JF

JOURNAL FEED KEY ([JF])

This key is used to advance the journal roll in the same fashion as the [RF] key. These keys are useful if the operator, due perphas to an interruption whilst ringing up a sale, is unsure which items have already been entered. By using the feed key the operator can see which figures have actually been printed.

The [RF] and [JF] keys can not be operated simultaneously.

NS

NO-SALE KEY ([NS])

This key is used to open the cash drawer while the machine is outside a sale. To operate, depress this key once. This function is usually used to give small changes for a big-amount bill, or to check the receipt and journal print condition.

A non-add number may usually be entered prior to a no-sale operation. However, it can be programmed to prohibt a no-sale operation after a non-add number entry.

LOG

LOG KEY ([LOG])

This key is used for Sales Person Sign-On (on GP-spec. registers) or Cashier Sign-On and Sign-Off (on GR-spec. registers).

Sales Person Sign-On (on GP-spec. register)

Enter the Sales Person ID Code given to each sales person, and depress the [LOG] key, followed by normal sale item regisrations. (Meanwhile one of the Clerk Keys must be set to ON beforehand.) The entered Sales Person's ID Code (01 to 99) and his/her name (if programmed) will be printed on the journal roll only.

The Sign-on may be operated only once at starting a sale, or every time before each item within a sale.

The Sign-on condition will automatically be reset on finalizing the sale or on another Sales Person Sign-On entry. To reset the sign-on of a first-entered sales person later within a sale (but no other sales person need be signed on), enter ID Code "99" (which is the fixed ID code of "Other Sales Person ID Code").

The Sales Person Sign-on operation may be programmed to be compulsory to start a sale registration.

Since the sales data registered under a Sales Person Sing-on are processed into the sales person's memory, the sales amount which each sales person has contributed will be outputted in Sales Person Reports (which are taken in the "X" or "Z" mode).

Cashier Sign-On and Sign-Off (on GR-spec. register)

. SIGN-ON (in "REG", "MGR", or " $\boxed{-}$ " mode):

Enter a 3- or 4-digit code, composed of first 2-digits as any number freely determined by the cashier (1 to 99) and next 2-digits as the Cashier ID code given to the cashier and pre-programmed in the cashier table file memory (01 to 99), and then depress the [LOG] key.

$\underline{|\quad|\quad|\quad|}$ → [LOG]

└── Manager-assign Cashier ID Code (01 to 99)
└────── Cashier's Own Secret Code (1 to 99)
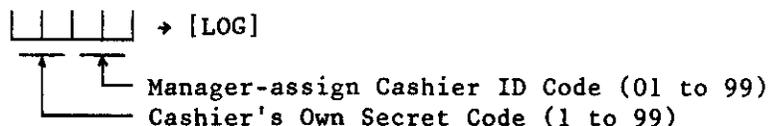
The Cashier Sign-on code being entered will not be displayed. On completing the sign-on, a Sign-On receipt is issued with the cashier's name (if the name is programmed) or the cashier ID (such as "CL01", if the name is not programmed).

The Cashier Sign-On operation is compulsory before starting to register any sales. The sign-on condition will be held until it is singed off. Turning the Mode Lock to a different position with a cashier's sign-on condition will result in an error. In this case, return the Mode Lock to the original position, then operate Sign-Off.

. SIGN-OFF (in the same mode position as the Sign-On was operated):

Enter "0" and then depress [LOG] when a sign-on condition is held and the register is outside a sale.

0 → [LOG]

A Sign-Off receipt is issued. In this condition, turning the Mode Lock to a different position or signing-on of another cashier will be allowed.

Since the sales data registered under each cashier's sign-on are prcessed into the cashier's memory, Cashier Reports are available in the "X" or "Z" mode.

SI/M (for single-SI machine)

SI (Selective Itemizer) MODIFER KEY(S)
([SI/M], [SI1/M], [SI2/M])

SI1/M ⎤
      (for double-SI machine)
SI2/M ⎦

These keys are used to reverse the SI (selective itemizer) status programmed on each Department or PLU.

For double-SI machine, two SI's are provided, and [SI1/M] and [SI2/M] function independently from the other.

To operate, depress the required SI/M key prior to entering a department or PLU item. The item is then reversed from SI to non-SI status, or vice versa.

As for the SI function and applications, refer to the [SI/TL] key description below.

SI/TL   **SI (Selective Itemizer) TOTAL EKY ([SI/TL])**

This key is used to display and print the selective itemizer content.

> **NOTE:** **Selective Itemizer Function and Applications**
>
> > The "Selective Itemizer" is a temporary total memory for each sale and is active separately from the Main Itemizer (i.e. sale total memory). If certain Department or PLU items are programmed with the SI (selective itemizer) status, the Selective Itemizer will function to add up amounts of the SI-status items in registering the items, while the Main Itemizer will function to add up all the items in the sale. Thus, near the sale finalization, the operator may read the SI content by depressing the [SI/TL] key.
> >
> > A preset % rate may be programmed for each of SI1 and SI2, and whether the calculated amount will add to, subtract from, or non-affect the sale total is a selective option. Whether the amount resulted by depressing the [SI/TL] key will print or non-print is another selective option.
> >
> > The applications of this function may vary from store to store. For example, some stores may use it for counting the service stamps to be issued to the customers according to the sale amount of service-stampable items. Other stores may use it for calculating the discount amount for certain sales items during a special sales period by presetting the discount % rate on the SI and programming SI status to certain Departments and PLUs which are subject to the special discount.

To operate, depress the [SI/TL] key without a numeric entry during a sale. At this time, the content of the selective itemizer is automatically cleared. Therefore, operate it near the end of the sale when no more additional sale items are to be entered.

The [ITEM CORR] key does not function to delete the [SI/TL] key entry.

If the "SI/TL Compulsory" option is selected, no finalizing operation will be allowed until the [SI/TL] key is depressed to clear the SI content.

If the "SI/TL Non-print" option is selected, the content of the SI is displayed and printed on the journal but not on the receipt.

On a dual-SI machine, the SI1 and SI2 contents are added up into one SI total and displayed (and printed) on the [SI/TL] key depression.

| BTL |
| RTN |

BOTTLE RETURN KEY ([BTL RTN])

This is a credit key to enter a bottle return amount. This key can be programmed either a motorized Inside-sale key or non-motorized Department-link key.

WHEN PROGRAMMED AS MOTORIZED INSIDE-SALE KEY

To operate, enter the bottle return amount and then depress the [BTL RTN] key. The [BTL RTN] key functions like a negative department key.

The amount entered through this key must not exceed the sale total unless the "Credit Balance" option is selected.

The amount entered through this key will be limited by its own preset limit amount. To release the limit, the MGR Key is required to turn the Mode Lock to the "MGR" position. The [LC OPEN] key will not be effective in this case.

WHEN PROGRAMMED AS NON-MOTORIZED DEPARTMENT-LINK KEY

To operate, depress [BTL RTN] before the bottle return amount entry, and then depress the approriate department key. The [BTL RTN] key functions like the [RTN MDSE] key.

The amount entered through this key will subtract the department total memory but not affect the department item count memory.

The bottle return amount must not exceed the sale total unless the "Credit Balance" option is selected.

A bottle return amount cannot be entered through a PLU item.

The amount entered through the [BTL RTN] key will be limited by the HALC (High Amount Listing Capacity) of the department thorugh which the amount is entered.

Quantity extension using the [BTL RTN] key (either type of the above two) is possible; however, decimal quantity is not allowed. Neither will split-price entries be allowed with the [BTL RTN] key.

None of the [RTN MDSE], [VOID], and [STR CPN] keys will function with the [BTL RTN] key.

RTN
MDSE

RETURNED MERCHANDISE KEY ([RTN MDSE])

This key is used to refund money to a customer who has returned items once purchased to the store.

To operate, depress this key before ringing up the amount to be refunded, and then depress the approriate department key (the department operation sequence may be replaced by a PLU item entry sequence). The amount is automatically printed and deducted from the bill.

The [RTN MDSE] key can be used outside as well as inside a sale.

This key is also used to enter a negative previous balance of a Customer File (Check Track) in the "[-]" mode. (See the REGISTERING PROCEDURE FOR SALES for further instructions.)

%+

PERCENT CHARGE KEY ([%+])

This key is used to add a percent rate to a sale. If the preset percent rate is to be added, depress the [%+] key without a prior numeric entry. If a rate different from the preset one is to be added, enter the desired rate on the numeric keyboard and then depress the [%+] key. The manual rate will take priority.

To operate, use the [%+] key after a department, PLU, or positive Previous Balance item if only that item requires the percent addition, or after the [ST] key if required on the total bill. The percentage rate and the amount are printed and will be added to the sale total.

The percent rae may be within the range from 0.001 to 99.999%. The fraction resulted from the percentage calculation is usually programmed to be rounded off. However, it can be programmed to be rounded up or discarded.

Usually, a % key operation after a subtotal is once obtained is allowed any number of times. However, it may be programmed to prohibit more than once.

%-

PERCENT DISCOUNT KEY ([%+])

This key operates in the same fashion as the [%+] key except that operation will subtract from instead of adding to a sale.

Additional [%+] or [%-] Keys

A maximum of two % keys including the present % keys may be installed on the keyboard. That is, if one [%+] key and one [%-] key are already installed, no other % keys can be added. However, the present two % keys can be programmed to be used as both %+ or both %- keys.

@/FOR

AT-FOR (QUANTITY EXTENSION AND SPLIT-PACKAGE PRICING) KEY ([@/FOR])

This key is used to multiply a department or PLU item entry by a quantity (Multiplication Function). This key is also used to auto-calculate and enter a split-package price (in such a case as a customer wants only two of five tomatoes in one package) (Split Price Function).

The basic order of mutliplcation is:

|QUANTITY| → [@/FOR] → |UNIT PRICE|

The quantity can be a maximum of 3 integarl digits and 3 decimal digits. The price can be a maximum of 6 digiths. The product must not exceed 8 digits.

As for details of multiplication and split pricing for various cases, refer to the "REGISTERING PROCEDURE FOR SALES" section.

Usually, the fraction below the least effective digit will be rounded off. However, it may be programmed to be rounded up or discarded by a program option.

PLU

PLU (Price-Look-Up) KEY ([PLU])

This key is used to enter a PLU that is linked to a department. Each PLU can be programmed to be a preset PLU (to allow the preset price only) or an open PLU (to allow a price entry through the numeric keys each time).

TO ENTER THROUGH PRESET PLU:

|PLU Code| → [PLU] ... The preset price will automatically be
1 to 4 digits;   read and entered.
(1 to 99999999)   To repeat the same PLU price, depress the
                     [PLU] key only, after the above operation.

TO ENTER THROUGH OPEN PLU:

|PLU Code| → [PLU] → |PRICE| → [AMT]
1 to 4 digits;
(1 to 99999999)   ... The price indexed through the numeric keys
                     will be entered.
                     To repeat the same PLU price, depress the
                     [AMT] key only, after the above operation.

As for quantity extension and split pricing involving PLUs, refer to the "REGISTERING PROCEDURE FOR SALES" section.

Each PLU is programmed with a max. 8-digit PLU Code, a 2-digit linked Department Code, a max. 6-digit Preset Price or Open Price Status, SI, Tax, Food Stamp, Scale, Stock, Trade Stamp statuses, and PLU Link Table No.(if required).

Link PLU Registration

If a PLU is programmed with a Link PLU Table No., registering the PLU will automatically register the sub-link PLU programmed in the Link PLU Table No. This function is useful to enter a bottled drink plus its bottle deposit, or for similar applications. Using this function, a maximum of 10 PLU may be linked in one series.

ex.) ⌈Registering PLU   PLU No.100 (ex. bottled drink
     │(Head-link PLU)   net price)
     │   .
     │   .   ↓
     │   .
     │PLU Link Table
     │No. programmed   Table No.1
     │in the Head-link
     ⌊PLU
                                    ↓

     ⌈PLU Link Table
     │programmed data   Table No.1:
     │   .   Sub-link PLU No.150
     │   .
     │   .   ↓
     │Sub-link PLU
     │to be auto-   PLU No.150 (ex. bottle deposit
     │registered   amount)
     │after the Head-
     ⌊link PLU
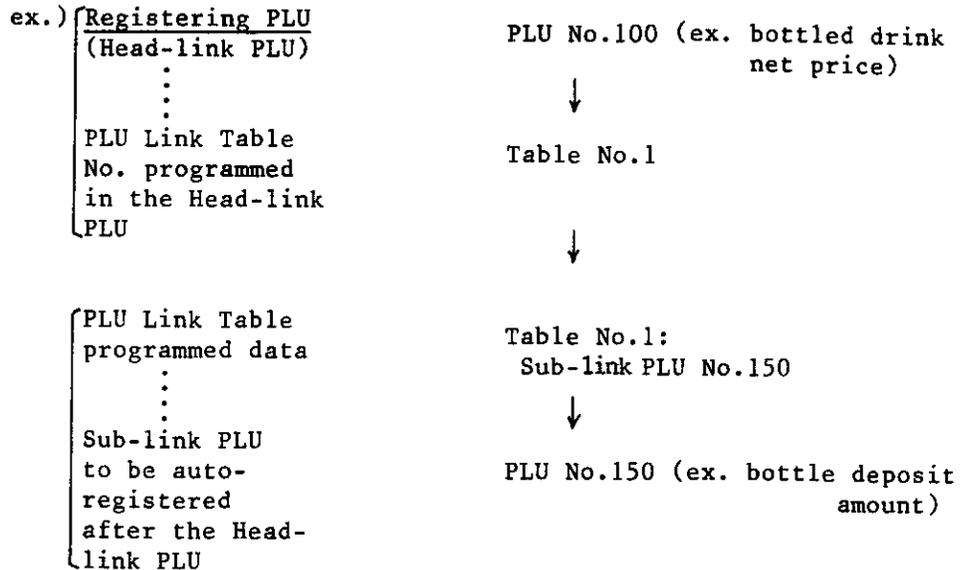
(If PLU No.150 in the above example is further programmed with a PLU Link Table No. and the table is programmed with a Sub-link PLU, the auto-registration will be repeated. In this way, linkage of max. 10 PLUs is possible.)

NOTES: 1. If more than 10 PLUs are linked in programming, it will result in an error at the time of registration.
2. An open PLU may be linked as the last item of the linkage. If an open PLU comes before the last item, the linking registration will stop there (the open PLU then may successfully be entered with the [AMT] key operation, but the rest of the linked PLUs will not automatically be registered any more).
3. Repeat, Item Correction, [%+], or [%-] operations are not accepted for link-PLUs registration. But Return Merchandise or Void operation is possible (all linked PLUs will be handled as returned or voided items in this case).
4. If a Scale PLU is contained in the linkage, it will result in an errror at the time of registration.
5. Quntity extension is possible (all the linked PLUs will be multiplied by the same quantity). Split Package Prcing is also possible if all the linked PLUs are split-price PLUs.
5. Modifier keys (such as [TX/M], [FS/M]) will be effective for the Head-link PLU item only, and the modification will be disregarded for other linked PLUs. But if the last PLU is an open PLU, it will allow modifications.

6. If any negative PLU is contained in the linkage, it will result in an error at the time of registration.
7. If any other error occurs during the auto recall-and-register routine of the linkage (such as the "MGR Requirement" status on a PLU, overriding the product limit amount due to multipliation, etc.), the auto registration will stop there, no more registration of the rest of the linked PLUs will be continued.
8. Valiation Compulsory or Remote Slip Compulsory status, if programmed for any of the linked PLUs, will be disregarded.

PLU Entries Through the PLU Keyboard (hardware option)

Preset PLU: Depress the corresponding KEY on the PLU Keyboard.

Open PLU: First depress the corresponding KEY on the PLU Keyboard, then enter the amount through the numeric keys and depress the [AMT] key on the ECR side.

| AMT |

AMOUNT KEY ([AMT])

This key is used to enter an amount or price for an open PLU.   Refer to the description of the [PLU] above.

| PR OPEN |

PRESET OPEN KEY ([PR OPEN])

This key is used to modify the status of preset department keys.   When the [PR OPEN] key is depressed prior to depressing a preset department key, the preset department key is reversed to an open department key and allows amount entry through the numeric keyboard for that item only.   (The amount must be entered after the [PR OPEN] key depression.)

If a preset department is entered with a price through the numeric keyboard using the [PR OPEN] key, depressing the same department key again will not repeat the first manuall-entered amount but the original preset price will be entered instead.   The [RPT] (Repeat) key makes it possible to repeat even the manually-entered price of a preset department key.

The [PR OPEN] key can not be used for a PLU item entry.

| LC OPEN |

LISTING CAPACITY OPEN KEY ([LC OPEN])

This key is used to release the listing capacity on each Department or media key.   To operate, depress [LC OPEN] before entering the amount and depressing the department or media key.

By depressing [LC OPEN], the HALC (High Amount Listing Capacity) will be released to allow a numeric entry with two further digits, and the LALC (Low Amount Listing Capacity) will be one digit less than the programmed value, as to the department keys.   As for the media keys, the HALC will be extended to allow one further digit.

The [LC OPEN] key will not fucntion to release the amount limit setting on each of the [DOLL DISC], [VND CPN], [STR CPN], and [BTL RTN](motorized inside-sale type) keys.

In order to allow an amount entry beyond the values defined with the use of the [LC OPEN] key, the Mode Lock must be turned to the "MGR" position, which position also allows a limit-free amount entry through [DOLL DISC], [VND CPN], [STR CPN], and [BTL RTN].

OPEN

LC-AND-PRESET OPEN KEY ([OPEN])

This is a dual-function key that has both [LC OPEN] and [PR OPEN] key functions.

VALI DATE

VALIDATION KEY ([VALIDATE])

This key is used to over-print a validation slip.

To operate, after registering an item or finalizing a sale, insert the slip into the validation slot and depress the [VALIDATE] key. The item and the amount will be printed in one line on the slip. Print or non-print of the date and/or consecutive No. is a programmable option.

Program selections are also provided as single- or multi-validation, validation compulsion on certain transaction keys, etc.

If the "SLP" lamp flickers, it means that validation compulsion is programmed for the last item entered. In this case, insert a slip into the validation slot and depress [VALIDATE]; no other operations are allowed until the compulsory validation is executed.

If validation compulsion is programmed on any media key to finalize a sale, the drawer will not open on finalizing the sale, but will open on printing the validation slip.

A validation slip attempt after the [TXBL TL] or [EX] key entry will result in an error. However, if the "Total Validation" option is selected, validation after the [TXBL TL] key will print the sale total amount and thereafter only finalizing operation will be allowed.

If the "Endorsement Print Compulsory (on the Remote Slip Printer)" is on along with the "Validation Compulsory" status on for a media just operated, valdiation must be operated first.

ITEM CORR

ITEM CORRECT KEY ([ITEM CORR]

This key is used to remove the last line item from the bill, printing a line through that item on the receipt and journal.

To operate, simply depress the [ITEM CORR] key immediately after the wrong item is entered and printed.

The item-correct function is effective when a numeric entry error or any other operation error and a [C] key depression are inserted between the line item to be corrected and the [ITEM CORR] key depression.

The [ITEM CORR] key will function to correct any last item entered through a Department, PLU (except linked PLUs), [%+], [%-], [DOLL DISC], [TAX](Manual Tax), [PB+], [PB-], [PICK UP BAL], [CODE OPEN], [VND CPN], [STR CPN], [BTL RTN], [RTN MDSE] keys, or Received-on-Account, or Paid-Out items.

However, the [ITEM CORR] key will not function to correct any lines already entered before the last line (refer to the [VOID] key description for such a purpose), or even the last line item entered through media keys, [ST], [#], [VOID], [EX], [SI/TL], [CHECK NO.], or [ITEM CORR] itself.

VOID KEY ([VOID])

The [VOID] key is used to delete an item entered previously (before the last line item) within a sale, in which case the [ITEM CORR] key will not function.

To operate, depress the [VOID] key before a normal department or PLU entry sequence.

The [VOID] key will function to void a previous item through a department or a PLU, or a combination of "department/PLU plus [%+]/[%-]" entry, but not any other kind of items.

The [VOID] key will not function to delete a Department or PLU along with using [RTN MDSE], [STR CPN], or [BTL RTN] keys.

ITEM CORRECT / VOID KEY ([IC/VD])

This is a dual-function key that has both [ITEM CORR] and [VOID] key functions.

If depressed without a prior numeric entry after an item-correctable entry, it functions as the [ITEM CORR] key.

If depressed with a prior numeric value (PLU code, price, amount, or quantity), it functions as the [VOID] key. In this case, it is required to always enter a numeric value before this key's depression; otherwise, it will result in item-correct operation if the last line item is item-correctable.

ex.) [DEPT 1] → |200| [DEPT2] → [IC/VD]

Preset Dept. ($1.00)

Price $2.00

Open Dept.

Functions as [ITEM CORR] (Deletes Dept.2 item, the last line item.)

Print Form

```
DP01        1.00
DP02------2.00
```

[DEPT 1] → |200| [DEPT2] → |1| [IC/VD] [DEPT 1]

— 1 x Dept.1 —

Quantity "1" for multiplication

Functions as [VOID]

```
DP01        1.00
DP02        2.00
      1 x   1.00@
DP01        1.00
```

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| SCALE | **SCALE KEY** ([SCALE])

This key is used for various scaled items. To enable to register weight data from the scale into a PLU, the PLU must be programmed as Scale-type PLU. But any Department (except negative Depts.) will allow scale item entries.

To operate, place the item on the scale platter, depress [SCALE], followed by a normal Department or PLU sequence. (The [SCALE] key may be omitted when a PLU sequence follows.)

Refer to the "REGISTERING PROCEDURE FOR SALES" section for various scale opeations.

| TARE NO. | **TARE NO. KEY** ([TARE NO.])

This key is used to enter the preset tare weight data prior to a scaled item entry, thus to subtract tare from the gross weight and obtain the net weight.

If the required tare weight has been progr_rmed to match a Tare Table No. (1 to 9), enter the Tare Table No., and then depress [TARE NO.] A manual tare weight entry will not be accepted.

Refer to the "REGISTERING PROCEDURE FOR SALES" section for futher instructions.

| # | **NON-ADD NUMBER PRINT KEY** ([#])

This key is used to print a non-add number (such as Customer No.) on the receipt and journal for future reference.

To operate, enter a maximum of 16-digit number (the preceding 0'z will be printed if any entered), and then depress [#]. The number is then printed. This operation may be performed any time between sales items, before or after all the sale items if the sale has not been finalized yet. Usually, non-add numbers may be entered any number of times within a sale. However, it is programmable to prhobit more than one non-add number entry within a sale.

When the Mode Lock is in the "MGR" position and the register is outside a sale (and in a Cashier Sign-Off condition on a GR-spec. machine), the two-digit preprogrammed Training Sign-On Code will declare the Training Mode, issuing a Training Sign-On receipt. In this condition, training operations will be allowed. To end the Training Mode once declared, do the same operation as the declaration.

| FS/M | **FOOD STAMP MODIFIER KEY** ([FS/M])

This key is used to reverse the food stampable/non-stampable status of a Department, PLU, [%+], [%-], [DOLL DISC], or [BTL RTN] (inside-sale type) items.

To operte, depress [FS/M] prior to the numeric entry (if any) and one of the keys listed above.

| C |

CLEAR KEY ([C])

This key is used to correct a numeric entry error or a declaration key (such as [RTN MDSE], [TX/M]) entry error prior to depressing a motorized key (such as [DEPT], media keys), or to correct any error condition and cancel the alarm tone.

If the [C] key is depressed after a subtotal is once obtained, the subtotal amount is again displayed. Similarly, after a taxable total is once obtained by [TXBL TL], a [C] key depression will regain the display indication to the taxable total (subtotal + taxes).

| TX/M | (for Single-tax Area)   **TAX MODIFIER KEYS** ([TX/M])
                                                           [TX1/M]
| TX1/M | | TX2/M | (for Dual-tax Area)   [TX2/M]
                                                           [TX3/M])

| TX1/M | | TX2/M | | TX3/M | (for Triple-tax Area)

Each of these keys is used to reverse the tax status (taxable/non-taxable status) on departments or other tax-status-programmable keys for one entry only. For multi-tax areas, a maximum of three keys should be provided -- [TX1/M], [TX2/M], and [TX3/M] -- in place of the [TX/M] key for single-tax areas. The three tax modifier keys will function independently from the others, with its own tax table pre-programmed for taxable items.

The tax modifer key(s) will be effective to reverse the tax status programmed on departments, PLUs, [DOLL DISC], [%+], [%-], [VND CPN], [STR CPN], and [BTL RTN] keys.

To operate, depress the required tax modifier key(s) prior to a numeric entry (if any) and a depression of any of those function keys above listed. Please note that in multi-tax areas each tax modifier key corresponds to its own tax table status. For example, [TX1/M] to Tax 1 status (e.g. National Tax), [TX2/M] to Tax 2 status (e.g. State Tax), etc.

The tax modifier keys are also used, along with the [EX] key, to exempt required tax(es) from the sale. Refer to the [EX] key description for this purpose.

| TAX |

MANUAL TAX KEY ([TAX])

This key is used to enter an irregular tax amount that cannot be calculated on the basis of the programmed tax table(s), and to add it to the sale total.

To operate, enter the desired amount of tax and then depress the [TAX] key. The amount entered is then printed. This tax amount is processed into the TAX 4 memory. Therefore, the tax amount automatically calculated and printed at finalizing the sale (TAX 1 to TAX 3) does not include a manual-entered tax, while the entire sale total printed on the receipt last line includes the manual-tax also.

This key is also used, if depressed without an amount entry within a sale, to display the total of only non-taxable items so far entered. Usually, this non-taxable total is only displayed but not printed. However, it may be programmed to print also.

NUMERIC KEYS (|_____|)

These keys are used to enter numeric values such as amount, quantity, or code number.

Depressing the [00] key once is the same as depressing the [0] key twice consecutively.

The maximum indexing listing capacity for a Non-add No. is 16 digits, the maximum registering capacity is 7 digits; but please note that some amount entries through certain function keys are limited by the preprogrammed amount limits.

DECIMAL POINT KEY ([.])

this key is used, as part of numeric keys, to designate the position of the decimal point when entering a percent rate (through [%+] or [%-]) or a quantity (through [@/FOR]). For example, to enter 0.5%, index 0→[.]→5, or [.]→5. A maximum of three digits may be entered below the decimal point.

When entering a price or amount such as $0.25, just index 2→5. In this case, depression of the [.] key is not necessary and will cause an error.

DEPARTMENT KEYS ([DEPT])

These are department keys through which sales items are registered. Each of these keys may be programmed as either 'OPEN' or 'PRESET' key.

OPEN DEPARTEMENT KEY ([Open DEPT])

A department key which has no preset price programmed is an 'OPEN' key and must enter a price manually each time. The price is rung up on the numeric keyboard and the appropriate department key is depressed. The price is then displayed and printed on the receipt and journal rolls.

When the same department key is depressed more than once consecutively after a price entry, the price entry is repeated as many times as the department key is depressed.

To enter a price extended by multiplication, enter the quantity first, depress the [@/FOR] key, enter the price, and then depress the appropriate department key. A multiplication entry may not be repeated by depressing the department key again.

For split-pricing, enter the purchased quantity, depress [@/FOR], enter the whole package quantity next, depress [@/FOR] again, enter the whole package price, and then depress the department key.

PRESET DEPARTMENT KEY ([Preset DEPT])

A preset key is a key which has already a price programmed in it.
It is therefore unnecessary to enter the price of an item; simply
depress the key to register the sale of one item.

To repeat the same preset item, depress the department key as many
times as required.

To multiply a preset department price by a quantity, enter the
quantity first, depress [@/FOR] ([@/FOR] may be omitted if the
preceding quantity is a one-digit value), and then depress the
preset department key.

For split-pricing, enter the purchased quantity first, depress
[@/FOR], enter the whole package quantity next, depress [@/FOR]
again, and then depress the preset department key.

If a price different from the preset one must be entered through
numeric keys into a preset department, depress the [PR OPEN] key
before the price entry, followed by the department key.

Each department is also programmed with positive/negative department
status, a HALC (High Amount Listing Capacity), LALC (Low Amount
Listing Capacity), tax, SI (Selective Itemizer), Food Stamp, Trade
Stamp statuses, and Link Department Code (if required).

Each department may also be programmed with a gross profit rate for a
report purpose.

A department item with [RTN MDSE], [PR OPEN], or [SHIFT] key, or a
negative department item cannot be repeated.

Link Department Registration

If a Department is programmed with a Link Department Code (sub-link
department), on the department entry the sub-link Department Code
will be displayed in the "DPT" portion and the "REG" lamp flickers
(or the "(-)" lamp instead in the " [-] " mode), indicating that the
displayed Department must be operated as sub-link department item.
No other operations will be accepted at this time.

This Dept-to-Dept link function may be used to register two
connected items at a time, such as Bottled Drink Department item
(as head-link) and Bottle Deposit Department item (as sub-link).

The link-department entry is effective for one set of a head-link
department item and a sub-link department item. If the sub-link
department is further programmed with another sub-link Department
code, it will be ignored at the time of registration.

Additional Department Keys

A maximum of 60 department keys including the present department keys
may be installed.

Also refer to the [SHIFT] key description on the next page.

SHIFT

DEPARTMENT SHIFT KEY ([SHIFT])

This key functions similarly to the "Shift Key" on an ordinary typewriter keyboard. Two different departments will be programmed on one Department Key, and shifting is possible from one department to the other by depressing the [SHIFT] key. For example, Department 1 can be used as Department 31 when the [SHIFT] key is depressed prior to [DEPT 1] key.

In this case, the number of all the department keys on the keyboard must be 30 or less. Thus the keyboard can spare space for other functions keys despite the number of departments.

The [SHIFT] key is effective to shift a department for only one entry; therefore, the shifted department can only be repeated by depressing the [RPT] key but not by simply depressing the same department key again.

ST

SUBTOTAL KEY ([ST])

This key is used to obtain the subtotal amount (sale total without taxes) during a sale. When this key is depressed after all the items have been rung up, the subtotal of the sale is printed and displayed.

If the [ST] key is depressed more than once consecutively, the first depression only will print <u>and</u> display the subtotal; further depressions will only display but not print the subtotal amount.

A programmable option provides the selection not to print but only display the subtotal even on the first depression of the [ST] key.

In charge posting, a depression of the [ST] key displays the subtotal amount without the previous balance.

TXBL
TL

TAXABLE TOTAL KEY ([TXBL TL])

This key is used to display the contents of the sale total <u>plus</u> any taxes due. The amount will display (and print if so programmed).

In order to allow add-on operation following the use of this key, the taxes are not added into any total memories until actual finalization is initiated.

Mandatory depression of this key prior to finalizing a sale is a programmable option.

If the "TOTAL VALIDATION" option is selected, depressing the [VALIDATE] key after a [TXBL TL] key depression prints the sale total on the validation slip, and therefore, only a finalizing operation then is allowed.

In charge posting, depressing the [TXBL TL] key displays the amount including taxes but excluding the previous balance.

VND
CPN

VENDOR COUPON KEY ([VND CPN])

This is a motorized credit key to subtract vendor coupon amount from the sale.

To operate, enter the coupon amount and depress the [VND CPN] key. This operation can only be performed inside a sale. The coupon amount to be entered must not exceed the sale total unless the "Credit Balance" option is selected.

This key can be programmed with Amount Limit (max. 4-digit value), tax, food stamp, validation compulsory statuses, and manager intervention.

To override the programmed amount limit, the "MGR" position of the Mode Lock is required, but the [LC OPEN] key will not be effective.

Quantity extension using the [VND CPN] is not possible.

STR
CPN

STORE COUPON KEY ([STR CPN])

This is a non-motorized credit key to subtract a store coupon amount redeemed through a department. Store coupon operations will net the department through which they are redeemed.

To operate, depress the [STR CPN] key before the coupon amount entry, then depress the appropriate department key.

If Store Coupon Limit Amount is programmed and a HALC (High Amount Listing Capacity) is also programmed on the Department, the store coupon entry amount will be limited to the lower value of the two settings.

The tax status of the [STR CPN] key is ruled by that of the deparment, but it may be programmed to be always non-taxable independently from the department status.

The store coupon amount must be entered inside a sale and must not exceed the sale total unless the "Credit Balance" option is selected.

The amount entered with the [STR CPN] key will subtract the Department Total memory, but does not affect the Deparment Item Counter memory.

Quantity extension will be permitted with this key, but no deicmal quantity will be accepted. No PLU, Void, Returned Merchandise, or Bottle Return (Department-link Type) entries are possible with the [STR CPN] key.

DOLL
DISC

DOLLAR DISCOUNT KEY ([DOLL DISC])

This key is used to subtract an amount from the sale such as a discount during a sale. An amount exceeding the sale total can not be entered unless the "Credit Balance" option is selected.

To operate, enter the discount amount on the numeric keyboard, and then depress the [DOLL DISC] key. It may be operated after a [ST] key depression or any time during a sale before finalizing the sale.

This key may be programmed with Amount Limit (max. 4-digit value), tax, food stamp, validation compulsory statuses, and manager intervention.

To override the programmed Amount Limit, the "MGR" position of the Mode Lock is required, but the [LC OPEN] key will not be effective.

Quantity extension is not possible using the [DOLL DISC] key.

R/A

RECEIVED ON ACCOUNT KEY ([R/A])

A received-on-account transaction is used to identify money which is in the drawer but not business. The amount entered is thus included in the In-drawer Total memories but not in the sales total memories.

To operate, enter an amount of payment and then depress the [R/A] key. Repeat this operation if multiple payments are entered at a time. The payments entered are finalized by the [AT/TL] key if paid in cash. Other media keys may also finalize payments received on account if so programmed. The above operation sequence can only be performed when the register is outside a sale.

The [R/A] key is also used to declare the payment amount near the end of a charge posting operation. After depressing the [Chg] key to obtain the sale total, enter the amount portion to be paid in this sale and then depress the [R/A] key, followed by media tendering or totalling operations. The media keys that can be used in this case are those programmed to allow payments received on account, which is just described in the above paragraph.

The [R/A] key is also used as the start key for Loan amount entries.

PO

PAID OUT KEY ([PO])

A paid-out transaction is used when an amount of money is removed from the cash drawer without relating to a sale. When the [PO] key is used, the amount entered is subtracted from the Cash-in-drawer Total memory but not sales totals.

To operate, enter an amount to be taken from the cash drawer and depress the [PO] key whilst the register is in an out-of-sale condition. This operation may be repeated if multiple paid-out items are registered in one transaction. The paid-out amounts are finalized by the [AT/TL] key only (i.e., must always paid out in cash).

In a charge posting operation, this key is depressed to pay back all the balance to the customer, after once finalizing the account with the [Chg] key.

The [PO] key is also sued as the start key for Pick Up operation.

EX

TAX EXEMPT KEY ([EX])

This key is used to declare the exemption of the taxes from the sale, displaying the sale total excluding the exempted-tax, printing the amount of the post-tax-exempted sale portion. Only a finalizing operation is possible after a [EX] key depression.

The [ITEM CORR] key cannot function to delete a [EX] key entry.

When multiple tax modifier keys are installed, partial tax exemption as well as all tax exemption may be performed in the following ways:

```
[TX1/M] → [EX] ............................ to exempt TAX 1 only
[TX2/M] → [EX] ............................ to exempt TAX 2 only
[TX3/M] → [EX] ............................ to exempt TAX 3 only
[TX1/M][TX2/M] → [EX] ................... to exempt TAX 1 and TAX 2
[TX2/M][TX3/M] → [EX] ................... to exempt TAX 2 and TAX 3
[TX1/M][TX3/M] → [EX] ................... to exempt TAX 1 and TAX 3
```

To exempt all the taxes, simply depress [EX] (or depress all the tax modifier keys first, and then depress [EX]).

CARD
NO.

CARD NO. KEY ([CARD NO.])

This key is used to enter the code number (1 to 2) which classifies the credit card company, followed by the sale finalization with the [Chg] key.

To operate, enter the Credit Card Company Code number (1 to 20), and depress [CARD NO.] (at this time the code is not printed). Then operate the [Chg] key to finalize the sale. The sale total will be processed into the Charge-in-drawer and the Individual Credit-in-drawer total memories respectively.

A wrong code entry up the [CARD NO.] key but before the [Chg] key depression can be corrected by the [C] key. But it is not possible to correct a code entry and print after the [Chg] key depression.

When only the [Chg] key is operated without entering a code and depressing [CARD NO.] (or when code "20" is entered through [CARD NO.]), the sale is processed into the "Other Credit Total (CRT20)" memory instead of a specific Credit Card Company classification.

If the "Card No. Compulsory" option is selected, the [Chg] key operation will not be accepted without a code entry through [CARD NO.].

Multi-tendering is allowed with multiple codes (if [Chg] is programmed to allow tendering), by repeating to enter each code before [CARD NO] and its amount tendered before [Chg].

If the [Chg] key is programmed to allow finalizing Received-on-Account payment items, the code entry operation described above is allowed even to finalize Received-on-Account payments or to finalize payment entries for a sale with previous balance.

If a validation print is performed for a [Chg]-finalized sale with a card code, the Company Name (preprogrammed to the code) will be printed on the validation slip.

AT/TL

CASH AMOUNT TENDER / TOTAL KEY ([AT/TL]) (Media 1 Key)

This key is used to record all cash paid on transactions, and will be able to finalize a sale operation. Usually this key is programmed to function as both "Tender" and "Total" key. However, the key may be programmed to operate with enforced tendering or as a cash total key.

TENDER FUNCTION

After the [ST] or [TXBL TL] key is depressed, enter the amount tendered by the customer in payment of the sale, and then depress the [AT/TL] key. The change is automatically computed, displayed, and printed.

If the amount tendered is smaller than the sale total, it prints the amount tendered on the receipt with the balance due displayed, but the drawer is not yet opened. In this case, ask the customer for additional payment in cash and repeat the same amount-tendering operation, or use another media key if the balance due is processed as a sale in that media.

NOTE: If [AT/TL] is programmed to function as "Tender" key only and the sale total is "0" or negative, no amount tendered can be entered. In this case, [AT/TL] will function just as the "Total" key, so just depress [AT/TL] to obtain the total and finalize the sale. The balance in negative indicates that the amount must be paid back to the customer in cash.

TOTAL FUNCTION

To obtain the total and finalize a cash sale, depress the [AT/TL] key only. The sale is finalized with the total printed and displayed, and the drawer opens.

If the "[TXBL TL] Complsory" option is selected, a [TXBL TL] key depression is always required before finalizing a sale.

When the sale is finalized by [AT/TL] or other media keys, the Trade Stamp amount to be issued to the customer will be printed on the receipt if appropriate options and the Trade Stamp preset rate have been programmed.

The [AT/TL] key is also used to finalize Received-on-Account payments or Paid-Out amounts.

The [AT/TL] key can be programmed with the HALC (High Amount Listing Capacity) of the amount tendered. If it is set, the amount tendered must not exceed the programmed value; otherwise, it will result in an error. If the [LC OPEN] key is used in such a case, the HALC will be extended by one additional digit. If an amount still larger must be entered, the Mode Lock must be turned to the "MGR" position.

The [AT/TL] key can also be programmed to prohibit short-tendering operation.

CHECK
TEND

CHECK TENDER KEY ([CHECK]) (Media 2 Key)

This key is one of non-cash media keys, and used to cash a check when the register is outside a sale, or to finalize the transaction as a check payment.

CHECK CASHING

When the register is outside a sale, enter the check amount and depress the [CHECK] key. A receipt is issued and the drawer is opened to enable exchange. However, this cashing function may be prohibited if so programmed.

FINALIZING AS CHECK PAYMENT

On finalizing a sale, refer to the [AT/TL] key description. The [CHECK] key is usually programmed to function as "Tender" key only. However, it may be programmed to function as "Total" key only or as both "Tender" and "Total keys, just as [AT/TL].

The [CHECK] key is also used to finalize Received-on-Account payments when paid in check, if programmed to allow it.

Over-tendering and/or short-tendering using this key may be also programmed to prohibit (in case this key functions as "Tender" key).

Along with validation print, Endorsement Print is available by the Remote Slip Printer (hardware option) after operating the [CHECK] key. The endorsment data will be printed by depressing the [CHECK NO.] key (later described in detail).

Chg

CHARGE TOTAL KEY ([Chg]) (Media 3 Key)

This key is usually programmed as "Charge Sale Total" key. However, it may be programmed to be another non-cash media key for such as payments in credit cards. Thus this key is used as an alternative method of payments for media other than cash and check. To operate, depress the [Chg] key, instead of [AT/TL], to obtain the total and finalize the sale.

This key has exactly the same functions and programmabilities as the [CHECK] key except that [Chg] is usually programmed as a "Total" key but not a "Tender" key.

As special function different from other non-cash media keys, this key may also finalize the current sale of charge posting. In this case, the amount displayed and printed by the [Chg] key is the sale total including the previous balance. However, it is programmable to print the sale total excluding the previous balance. (Always displays the amount including the previous balance.)

MISC
TEND

MISCELLANEOUS MEDIA TENDER KEY ([MISC]) (Media 4 Key)

This is one of additional non-cash media keys that may be installed besides [CHECK] and [Chg]. This key has the same functions and programmabilities as the [CHECK] key, and usually used as a "Tender" key.

MEDIA 5 to 8 KEYS   ex:

CPN	MEDIA-COUPON KEY ([CPN]) (Media 5)

CREDIT 1	CREDIT 1 KEY ([CREDIT 1]) (Media 6)

CREDIT 2	CREDIT 2 KEY ([CREDIT 2]) (Media 7)

CREDIT 3	CREDIT 3 KEY ([CREDIT 3]) (Media 8)

These are additional non-cash media keys that may be installed besides other media keys, according to the requirements of each store.

The key indications and the matching media listed above are only examples. Since each of these keys can have the same functions and has the same programmabilities as the [CHECK] or [MISC] key, it can be used for any media tender or total functions.

FSTL TEND	**FOOD STAMP TOTAL READ / TENDER KEY** ([FSTL TEND])

This is a multi-purpose function key associated with the food stamp tendering operation.

FOOD STAMPABLE TOTAL READ

The first depression of this key without a prior amount entry during a sale displays the food-stampable total, which indicates the maximum amount the customer may pay in food stamp.

FOOD STAMP TENDERING

Next, the food stamp amount tendered by the customer is entered and then the [FSTL TEND] key is depressed. If the food stamp amount tendered is equal to or larger than the food-stampable total and if there is no non-food-stampable amount included in the sale (accurately, a maximum non-food-stampable amount of 99¢ may be included), the sale is finalized and a receipt is issued. If any non-food-stampable amount is included or the tendered food stamp amount is short of the food-stampable total, the balance due is displayed, expecting for another tendering or totalling operation in other medias.

The change by the unit of $1.00 will be returned in food stamp (displayed in the "DPT" portion), but the change portion less than $1.00 will be returned in cash (displayed in the "AMOUNT" portion).

There are three types of food stamp handlings regarding the tax payment system for the food stampable items, and the register has been programmed with the right type for each area:

1) GENERAL TYPE

The customer may pay up to the food-stampable amount plus the taxes due in food stamp. (The FOOD STAMPABLE TOTAL read in the display already includes the taxes due in this type.)

2) ILLINOIS TYPE

The customer may pay up to the food-stampable amount in food stamp, and the amount actually paid in food stamp is tax-exempted. (The FOOD STAMPABLE TOTAL read in the display does not include the taxes due in this type.)

3) TEXAS TYPE

The customer may pay up to the food-stampable amount in food stamp, but any taxes due must be paid in cash. (The FOOD STAMPABLE TOTAL read in the display does not include the taxes due in this type.)

PB+		PB-

PREVIOUS BALANCE KEYS ([PB+] [PB-])

These keys are used to enter a previous balance in a charge posting operation. If a previous balance is entered, then the operation becomes a charge posting, and the [Chg] key must be used at the end of the operation. (See the "REGERISTERING PROCEDURE FOR SALES" section as to detail operations to follow the [Chg] key.)

A previous balance may be entered anywhere and any number of times during a sale. The [PB+] key is used to post a debit balance and the [PB-] key is used to post a credit balance. To initiate a charge posting operation where no previous balance exists, then enter "0" as a past balance, followed by [PB+] or [PB-].

If the [TXBL TL] is depressed during a charge posting, the displayed amount does not include the previous balance. When the [Chg] key is depressed to end a charge posting sale, the displayed and printed amount includes the previous balance. However, a program option may be selected to print the amount excluding the previous balance. (The displayed amount always include the previous balance.)

The [%+] or [%-] key may be operated after a previous balance entered through [PB+] but not [PB-].

TRF

TRANSFER KEY ([TRF])

When a charge posting is ended with the [Chg] key, this key is used to transfer the entire balance with no payment.

To operate, depress the [TRF] key after the [Chg] key. All the balance is transferred, the transferred amount is printed as the new balance, and a receipt is issued. In this operation, the [Chg] key may be omitted.

PICK UP BAL

PICK UP BALANCE KEY ([PICK UP BAL])

This key should be installed in place of the [PB+] key if the "Customer File" memory option is selected. By entering the Customer File Code before depressing the [PICK UP BAL] key, the previous balance of the customer will automatically be recalled and printed from the Customer File memory and the operation will go into a charge posting mode.

For a new customer, a Customer file Code not in use (or of its balance "0") may be assigned through the [PICK UP BAL] key, or a new code may be opened by the [CODE OPEN] key.

The [%+] or [%-] key may be operated to add to or subtract from the previous balance recalled and printed through [PICK UP BAL].

The [PICK UP BAL] key may operate at the top of the sale or any time during the sale; however, unlike the [PB+] and [PB-] keys, it can only operate only once in the sale.

CODE
OPEN

CUSTOMER FILE CODE OPEN KEY ([CODE OPEN])

This key should be installed in place of the [PB-] key if the "Customer File" memory option is selected. By entering a new code (Customer File No.) before depressing this key, the new Customer File No. is opened and assigned to the new customer for the following charge posting sale. If the [ITEM CORR] is operated immediately after this, the File No. just opened will be closed.

If certain Customer File Codes have been opened in the "CUSTOMER FILE CODE OPENING" operation in the "SET" mode, entering one of those codes and depressing the [CODE OPEN] key (for the purpose of opening a new customer account and assigning the code) will result in an error. In that case, enter the code and depress the [PICK UP BAL] key. The new customer account is then started with the balance "0" if it has not been used for any other customer.

This key may operate at the top of the sale or any time during the sale; however, it can operate only once in the sale.

RECEIPT
ISSUE

RECEIPT POST-ISSUE KEY ([RECEIPT ISSUE])

This key is used to issue the receipt of a sale when the sale has already been finalized with the [RECEIPT ON/OFF] switch positioned to OFF. However, the post-receipt can be issued even when the [RECEIPT ON/OFF] switch is positioned to ON if so programmed in the system otpion.

To operate, depress [RECEIPT ISSUE] without a numeric entry. The receipt for the last sale (printed with the sale total but not detail items) is issued. This key will not function if another sale has already been under way.

RPT

REPEAT KEY ([RPT])

This key is used to repeat a department or PLU entry. This key enables repeat entries not only for normal department or PLU items but also items modified with [PR OPEN], [SHIFT], etc.

CHECK
NO.

CHECK NO. AND ENDORSEMENT PRINT KEY ([CHECK NO.])

This key is used to print the endorsement data with or without a check No. print after finalizing a sale with a non-cash media key.

To operate, insert the check or required slip into the Remote Slip Printer, and depress [CHECK NO.]. When a number (maximum 16 digits) is entered before [CHECK NO.], the number is also printed as Check No., along with other endorsement data.

Endorsement Print Lines


```
                                    ←— Check No. Line

                                    ] Endorsement Message
                                      Lines (programmable)

                                    ←— Total Amount Line
                                    ←— Consecutive No./Cashier ID/ Media
                                    ←⌐ Line
                                      └─ Reg. No./Date/Time Line
```
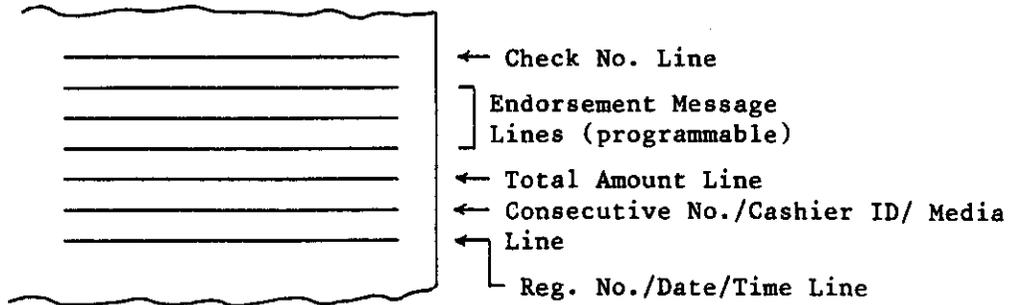
NOTES: 1. The Endorsment Message is programmable with a maximum of 27 characters x 3 lines.
2. The Endorsement Message Lines and the Total Amount Line can be programmed to non-print (skip the line with no line feeding) if they are unnecessary.

The endorsment print is allowed after any non-cash media key entry.

Each non-cash media key may be programmed to require the endorsement print operation.

The "Check No. Entry" before the [CHECK NO.] key may also be programmed to be compulsory.

REGISTERING PROCEDURE FOR SALES

The following are pattens for actual registering operations. In the following examples, "|___|" indicates an input through the numeric keys, "[   ]" indicates a depression of the transaction key, and "---" indicates other registering and/or finalizing operations.

CONDITION SETTING TO START REGISTRATIONS

Mode Lock ..... Turn to "REG" position.
For operations that have been programmed to require the "MGR" position, turn to the "MGR" position by using the "MA" or "MGR" key.

Clerk Lock

GP-spec. machine ..... Set the Clerk Key of the operating clerk to ON.

GR-spec. machine ..... No clerk keys are necessary.
However, if Clerk Reports are required, set the Clerk Key of the responsible Clerk to ON.

Cashier Sign-On ..... The operating cashier must sign-on before starting registrations.

|_|_|_|_| → [LOG]

└── Cashier ID Code (Manager-assign 2-digit code 01 to 99)

└── Cashier's own secret code (01 to 99)

ex.) If the Cashier ID Code "01" is assigned to a cashier, and she decides to use "42" as her own secret code, she operates: 4 2 0 1 → [LOG]

(The sign-on condition will be held until a sign-off is operated.)

Cashier Sign-Off ..... The operating cashier must sign-off when leaving the register or changing the role to another cashier.

0 → [LOG]

Sales person Sign-On ..... If the store wants to record sales contribution data of each sales person for report purpose, a sales person sign-on should be performed every time a sale registration starts or every time before each item is entered.

|_|_| → [LOG]

└── Sales Person ID Code (Manager-assign 2-digit code
01 to 98)

(The sales person sign-on is automatically be signed-off by finalizing the sale or by signing on another sales person. When an enforced sign-off is required before a sale is finalized, sign on the fixed code "99" to sign off the previous sales person. The code "99" is assigned and fixed for "other sales persons" memory.)

Now the register is ready for the following operations.

NO-SALE (Allowed only outside a sale)

[NS]

DEPARTMENT ENTRY

|PRICE| [Open DEPT] → ---

[Preset DEPT] → ---

[PR OPEN] |PRICE| [Preset DEPT] → ---

NOTES: 1. Use [SHIFT] before the [DEPT] key for a shifted department entry.
2. [LC OPEN] may be operated. In this case, [LC OPEN] may be depressed at the top (except that it may depressed after [PR OPEN]).

PLU ENTRY

|Preset PLU Code| [PLU] → ---

|Open PLU Code| [PLU] → |PRICE| [AMT] → ---

Using PLU Keyboard:

[KEY] → --- (for a preset PLU item)   (NOTE: The "[KEY]" here indi-
                                              cates the appropriate
[KEY] → |PRICE| [AMT] → --- (for an   key on the PLU keyboard
                            open PLU item)   which has been program-
on PLU   on ECR   med with the required
Keyboard   PLU Code.)

REPEAT ENTRY

|PRICE|[Open DEPT] → [same DEPT] → [same DEPT] ... → ---

(Repeat depressing the same department key as many times as the desired count.)

[PRESET DEPT] → [same DEPT] → [same DEPT] ... → ---

|Preset PLU Code| → [PLU] → [PLU] → [PLU] ... → ---

|Open PLU Code| [PLU] → |PRICE| [AMT] → [AMT] → [AMT] ... → ---

NOTES: 1. Repeat entry is not possible by the above patterns when the
          [PR OPEN], [VOID], [RTN MDSE], [BTL RTN], [STR CPN], or [SHIFT]
          key has been operated together. Negative Departmets or PLUs
          will not accept a repeat operation, either.
       2. The [LC OPEN], Tax Modifier Keys, [SI/M], [FS/M] keys are
          effective on repeat operations by the above patterns.

Repeat Opeation Using [RPT] Key:

    [Preset DEPT] → [RPT] → [RPT] ... → ---

    |PRICE| [Open DEPT] → [RPT] → [RPT] ... → ---

    [PR OPEN] → |PRICE| [Preset DEPT] → [RPT] → [RPT] ... → ---   ⎤ These are
                                                                   ⎟ only possible
    [SHIFT] → [Preset DEPT] → [RPT] → [RPT] ... → ---   ⎟ by [RPT] Key.
                                                                   ⎟
    [SHIFT] → |PRICE| [OPEN DEPT] → [RPT] → [RPT] ... → ---   ⎦

    |Preset PLU Code| [PLU] → [RPT] → [RPT] ... → ---

    |Open PLU Code| [PLU] → |PRICE| [AMT] → [RPT] → [RPT] ... → ---

QUANTITY EXTENSION (MULTIPLICATION

    |QUANTITY| → [@/FOR] → [Preset DEPT] → ---
              └─ (May be omitted if the QUANTITY is 1-digit.)

    [PR OPEN] → |QUANTITY| → [@/FOR] → |PRICE| [OPEN DEPT] → ---

    |QUANTITY| → [@/FOR] → |PRICE| [Open DEPT] → ---

    |QUANTITY| → [@/FOR] → |Preset PLU Code| [PLU] → ---

    |Open PLU Code| [PLU] → |QUANTITY| → [@/FOR] → |PRICE| [AMT] → ---

NOTES: 1. QUANTITY ... max. 3-digit integral and 3-digit decimal
           PRICE ...... max. 6 digits
           PRODUCT .... must not exceed 8 digits
           (If a PLU is programmed with the "stock" status, the QUANTITY
           must always be entered in an integral value.)
        2. Tax Modifier Keys, [LC OPEN], [SI/M], [FS/M] keys are
           effective if depressed before starting each sequence.

SPLIT PACKAGE PRICING

    |PURCHASED Q'TY| [@/FOR]→|WHOLE PACKAGE Q'TY| [@/FOR]→[Preset DEPT]→ ---

    |PURCHASED Q'TY| [@/FOR]→|WHOLE PACKAGE Q'TY| [@/FOR]─┐
                                                          │
                               └→|WHOLE PACKAGE PRICE| [Open DEPT]→ ---

```
|PURCHASED Q'TY| [@/FOR]→|Split Price Type PLU Code| [PLU]→ ---
                         (Preset PLU)

|Split-Price Type PLU Code| [PLU]→|PURCHASED Q'TY| [@/FOR]─┐
     (Open PLU)                                            │
                                    ┌──────────────────────┘
                                    └→|WHOLE PACKAGE PRICE| [AMT]→ ---
```

NOTES: 1. PURCHASED QUANTITY ... max. 3 digits integral only
          WHOLE PACKAGE QUANITY ... max. 3 digits integral only
       2. Usually, <u>the fraction of the result</u> is rounded up in
          split-pricing operation. However, it is programmable to round
          up the <u>fraction of each item price</u> (item price = WHOLE PACKAGE
          PRICE ÷ WHOLE PACKAGE Q'TY).
       3. Only the Split-Price Type PLUs allow split pricing operations,
          but not the other ordinary type of PLUs.

RETURNED MERCHANDISE

Follow the operation sequences of DEPARTMENT ENTRY, PLU ENTRY (page 32),
QUANTITY EXTENSION (page 33), and SPLIT PACKAGE PRICING (page 33 to this
page); and depress [RTN MDSE] before the sequence (must be depressed at
the starting).

BOTTLE RETURN (motorized inside-sale type)

--- → |BOTTLE RETURN AMOUNT| [BTL RTN] → ---   (Quantity Extension is
                                                   possible.)

BOTTLE RETURN (non-motorized department-link type)

--- → [BTL RTN] → [Preset DEPT] → ---   (Quantity
                                                             Extension is
--- → [BTL RTN] → |BOTTLE RETURN AMOUNT| [OPEN DEPT] → ---   possible.)

DOLLAR DISCOUNT

--- → |DISCOUNT AMOUNT| [DOLL DISC] → ---

PERCENT DISCOUNT

(1) To discount from the subtotal:

    --- → [ST] → [%-] → --- ... to discount by the preset %- rate

    --- → [ST] → |RATE| [%-] → --- ... to discount by a manual rate

(2) To discount from an individual department or PLU item:

    (|PRICE|) → [DEPT] → [%-] → --- ... to discount by the preset %- rate

    (|PRICE|) → [DEPT] → |RATE| [%-] → --- ... to discount by a manual rate

NOTES: 1. The rate may be entered within the rate from 0.001 to
          99.999(%). Use the [.] key if the rate contains the decimal
          point.

2. The above department entry sequence may be replaced by PLU entry sequences.
3. Percent discount/charge can also be operated on a positive Previous Balance entry.

PERCENT CHARGE

This operates the same as the PERCENT DISCOUNT operations above, except that the [%+] key is used instead of the [%-] key.

STORE COUPON

Follow the operation sequences of DEPARTMENT ENTRY (page 32) and QUANTITY EXTENSION of Departments (page 33), and depress [STR CPN] before the sequence (must be depressed at the starting).

The [STR CPN] key will not function with a PLU entry sequence.

VENDOR COUPON

--- → |COUPON AMOUNT| [VND CPN] → ---   (Quantity Extension is not
                                                          possible.)

ITEM CORRECT (Last Line Voiding)

Depress [ITEM CORR] after each sequence, as listed below:
DEPARTMENT ENTRY (page 32) ───────────────→
PLU ENTRY (page 32) ──────────────────→
REPEAT ENTRY (page 32 to 33) ──────────→
QUANTITY EXTENSION (page 33) ─────────→
SPLIT PACKAGE PRICING (page 33 to 34) ──────→
RETURNED MERCHANDISE (page 34) ──────────→
BOTTLE RETURN Of both types (page 34) ──────→   → [ITEM CORR] → ---
DOLLAR DISCOUNT (page 34) ───────────→
PERCENT DISCOUNT/CHARGE (page 34 to this page)→
PAID OUT: |AMOUNT| [PO] ─────────────→
RECEIVED ON ACCOUNT: |AMOUNT| [R/A] ─────→
MANUAL TAX: |AMOUNT| [TAX] ────────────→
STORE COUPON (this page) ────────────→
VENDOR COUPON (this page) ──────────────→
PREVIOUS BALANCE: |AMOUNT| [PB+] (or [PB-])┐
                  |CODE| [PICK UP BAL] ──┤────→
                  |CODE| [CODE OPEN] ──┘

NOTES: 1. When [ITEM CORR] is depressed after a REPEAT ENTRY sequence, only the last item of the repeated will be deleted.
2. When [ITEM CORR] is depressed after a QUANTITY EXTENSION or SPLIT PACKAGE PRICING sequence, the entire product resulted from the calculation will be deleted.
3. The [IC/VD] key will function the same as the [ITEM CORR] key in all of these patterns.

VOID (Designated Line Voiding)

Follow the operation sequences of DEPARTMENT ENTRY (page 32), PLU ENTRY (page 32), QUANTITY EXTENSION (page 33), and SPLIT PACKAGE PRICING (page 33); and depress [VOID] before the sequence (must be depressed at the starting).

Designated Line Voiding is also possible for a Department or PLU item plus %+ or %- item sequences, if [VOID] is depressed before the entire sequence.

NOTE: The [IC/VD] key will function the same as the [VOID] key except that:
  1) [VOID] must be depressed before the sequence, however,
  2) [IC/VD] can only be depressed <u>after a numeric entry.</u> If depressed at the top without a prior numeric entry, it may item-correct the last item just entered. In voiding a preset department entry, for example, the quantity must be entered first (if an ordinary entry of one item, the quantity should be ."1"), next depress [IC/VD], and then the [Preset DEPT] key.

<u>EXAMPLES OF DESIGNATED LINE VOIDING USING [IC/VD]</u>

|1| → [IC/VD] → [Preset DEPT] → ---
  └ Quantity "1" of multiplication

|PRICE TO BE VOIDED| → [IC/VD] → [Open DEPT] → ---

|Preset PLU Code| → [IC/VD] → [PLU] → ---

|Open PLU Code| → [IC/VD] → [PLU] → |PRICE TO BE VOIDED| → [AMT] → ---

NON-ADD NUMBER PRINT

|NUMBER| [#] → ---
  └─ Customer No., etc.: max. 16 digits

TAX STATUS MODIFICATION

Depress required Tax Modifier Key(s) before the required tax-status programmable key or item of the following (and before a numeric entry if any):
        Departments, PLUs, [%+] [%-], [DOLL DISC], [BTL RTN], [VND CPN], [STR CPN].

SELECTIVE ITEMIZER (SI) STATUS MODIFICATION

Depress [SI/M] (or [SI1/M] and/or [SI2/M]) before the entry sequence of the required Department or PLU (and before a numeric entry if any).

FOOD STAMP (FS) STATUS MODIFICATION

Depress [FS/M] before the entry sequence of the required Department, PLU, [%+], [%-], [DOLL DISC], or [BTL RTN](motorized inside-sale type) (and before a numeric entry if any).

SCALE ENTRY, TARE ENTRY

AUTO SCALE WITHOUT TARE (Place the item on the scale platter.)

    [SCALE] → |UNIT PRICE|[Open DEPT] → ---

    [SCALE] → [Preset DEPT] → ---

    ([SCALE]) → |Preset PLU Code|[PLU] → ---
       ├— may be omitted for Scale PLU entry.

    ([SCALE]) → |Open PLU Code|[PLU] → |UNIT PRICE|[AMT] → ---

AUTO SCALE WITH TARE (Place the item on the scale platter.)

    |Tare Table No.|[TARE NO.] ──*──→ |UNIT PRICE|[Open DEPT] → ---
      (1 to 9)   ├──→ [Preset DEPT] → ---
             ├──→ |Preset PLU Code|[PLU] → ---
             └──→ |Open PLU Code|[PLU]──┐
                         └─→|UNIT PRICE|[AMT]→ ---
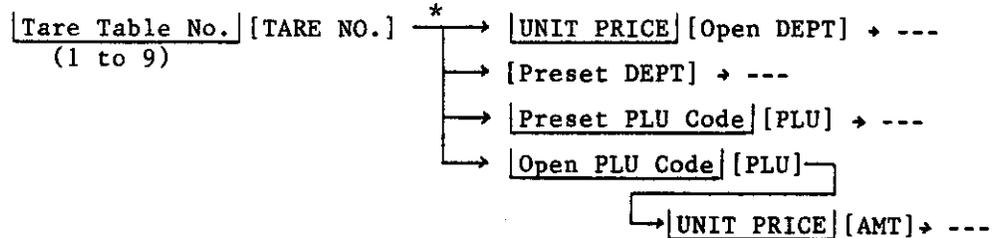
MANUAL SCALE ENTRY (May be programmed to be prohibited)

    |Net Weight Manual Entry|[SCALE] → To be continued to the sequences
      (unit: 1/100 LB or g)   marked with "*" above.

VOID OR RETURN MANUAL SCALE ENTRY (May be programmed to prohibit any manual scale entry except VOID or RETURN, or inslcuing VOID and RETURN.)

    [VOID] ─────→
    [RTN MDSE]─→|→ To be continued to the sequence for "MANUAL SCALE ENTRY" above. (The Net Weight must entered manually in this case.)

NOTES: 1. PLUs operated here must be programmed as "Scale Type"; no other PLUs may be used for scale entries.
       2. In the Negative Mode (i.e., in the "|-|" position of the Mode Lock), any scale items must be recorded with a manual net weight entry. Therefore, follow the "MANUAL SCALE ENTRY" and "VOID OR RETURN MANUAL SCALE" entry described above. The manual-scale-prohibited status will be disregarded in the Negative Mode.

SUBTOTAL READ (Sale Total Without Taxes)

    --- → [ST] → --- ... The sale total of the items so far entered is displayed (and printed if so programmed), but the sale is not finalized.

TAXABLE TOTAL READ (Sale Total plus Taxes)

--- → [TXBL TL] → --- ... The sale total including taxes is displayed (and printed if so programmed). The sale is not yet finalized. Mandatory depression of [TXBL TL] before finalizing a sale is a programmable option.

MANUAL TAX ENTRY (only to add irregular tax amount)

--- → |TAX AMOUNT TO BE ADDED| [TAX] → ---

NON-TAXABLE ITEM TOTAL READ

--- → [TAX] → --- ... The total amount of the non-taxable items so far entered within the sale is displayed. It is ususally not printed, but programmable to print also.

TAX EXEMPTION

--- → [TX1/M] → [EX] ... to exempt Tax 1 only
--- → [TX2/M] → [EX] ... to exempt Tax 2 only
--- → [TX3/M] → [EX] ... to exempt Tax 3 only
--- → [TX1/M][TX2/M] → [EX] ... to exempt Tax 1 and Tax 3
--- → [TX2/M][TX3/M] → [EX] ... to exempt Tax 2 and Tax 3
--- → [TX1/M][TX3/M] → [EX] ... to exempt Tax 1 and Tax 3
--- → [EX] ... to exempt all the taxes (or all the Tax Modifier Keys may be depressed before [EX].)

Displays the post-tax-exemption total while prints the tax-exempted portion of the sale total.

SELECTIVE ITEMIZER (SI) READ

--- → [SI/TL] → --- ... The SI total is displayed (and printed on the receipt if so programmed).

NOTES: 1. If % rate is preset for the SI, the amount calculated on the rate is automatically displayed (and printed on the receipt if so programmed). Whether the calculated amount adds to or subtracts from or non-affect the sale total is another programmable option.
2. If the "SI/TL Compulsory" option is selected, the [SI/TL] key is always required before finalizing a sale.
3. The content of the selective itemizer is cleared at the moment of the depression of the [SI/TL] key, getting ready for the selective itemization of the next sale.
4. If both SI1 and SI2 are programmed, the consolidated total of SI1 and SI2 contents is displayed (and printed) on the [SI/TL] depression.

FOOD STAMPABLE TOTAL READ, FOOD STAMP TENDERING

```
--- → [FSTL TEND] → |Food Stamp Tendered Amount| [FSTL TEND] → ---
              |
         Displays the      _____∨_____/
         food-stampable        Tendering in Food Stamp
         total.                (This must be operated first of all the
                               payments in finalizing the sale if food
                               stamps are part of the payment.)
```
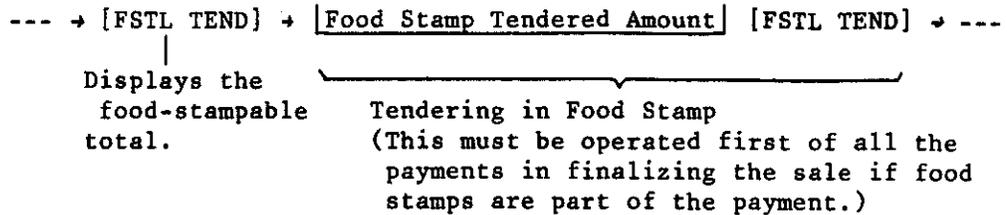
SALE FINALIZATION BY MEDIA KEYS

```
--- → ([TXBL TL]) ──────┬──────────────────────────────────┬──→ [AT/TL]
                        |     finalize without tendering    |──→ [CHECK]
                        └─→ |Tendered Amount| ──────────────┤──→ [Chg]
                            finalize with tendering         |──→ [MISC]
                            and change calculation          └──→ Other media keys
```
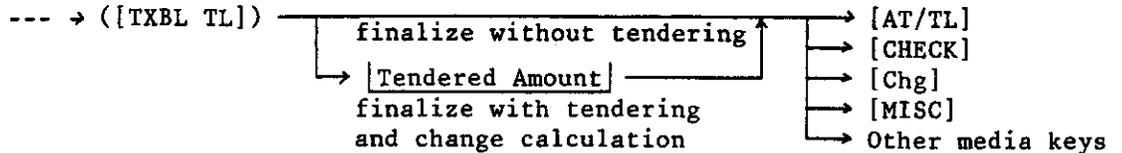
NOTES: 1. Whether each Media Key is depressed with a prior tendered amount entry or not is determined by the option for the Media Key. If the sale total is "0" or negative, any Media Key must be depressed without a tendered amount entry even if the key is programmed as "Tender" key. Each of non-cash media keys may be programmed to prohibit Negative Sale Fianalization, Over-tendering, and/or Short tendering.

SALE FINALIZATION BY CREDIT CARD

```
--- → ([TXBL TL]) → |Card Code| [CARD NO.] ────┬──────────────────┬──→[Chg]
                  ↑  1 to 20                    |  without tender  |
                  |  (Credit Company            └→ |Tendered Amount|┘
                  |   Classification Code)         with tender and
                  |  _____∨_____/    change
                  |                |
                  |  (Correctable by [C] Key)
                  |_____|
```
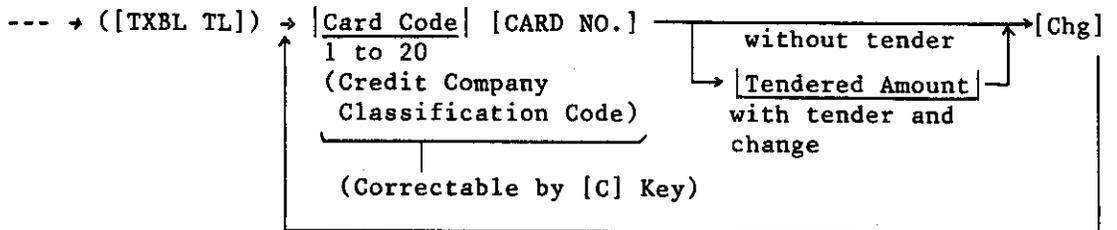
Repeatable if short-tendering is repeated with same or different Card Code. In this case, the [Chg] key must be programmed to allow "Tendering" and "Short-tendering."

NOTES; 1. If the "Card No. Compulsory" option is selected, the [Chg] key must always be operated with a prior Card Code entry sequence.
2. The above sequence from "|Card Code|" to "[Chg]" may be used to finalize received-on-account payments if the [Chg] key is programmed to allow received-on-account entries.

MULTI-TENDERING ... Short-tendering repeated multiple times by the same media (allowed only when the media key is programmed to allow short-tendering)

ex.)
```
--- → ([TXBL TL]) → |AMOUNT TENDERED| [CHECK] ─┐
                  ┌──────────────────────────────┘
                  └→|AMOUNT TENDERED| [CHECK] ─┐
                  ┌──────────────────────────────┘
                  └→|AMOUNT TENDERED| [CHECK]
```
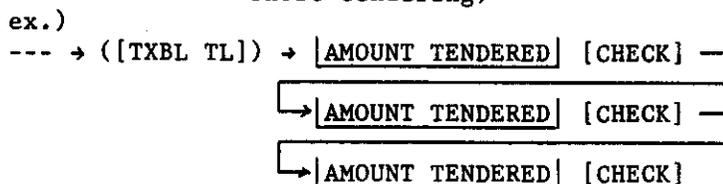
SPLIT-TENDERING ... short-tendering repeated multiple times by different media keys (allowed only when the media keys are programmed to allow short-tendering).

ex.1)
--- → ([TXBL TL]) → |CHECK AMOUNT TENDERED| [CHECK] ─┐

        ├→ (|CASH AMOUNT TENDERED|) [AT/TL] ... Check & Cash

        ├→ (|Card Code| [CARD NO.]) → [Chg] ... Check & Charge

        └→ |CASH AMOUNT TENDERED| [AT/TL] → [Chg]

                            ... Check, Cash, & Charge

ex.2)
--- - ([TXBL TL]) → |CASH AMOUNT TENDERED| [AT/TL] → [Chg]

                             ... Cash & Charge

ex.3)
--- - ([TXBL TL]) → [FSTL TEND] |FOOD STAMP AMOUNT TENDERED| [FSTL TEND] ─┐

        ├→(|CASH AMOUNT TENDERED|) [AT/TL] ... Food Stamp & Cash

        ├→|CHECK AMOUNT TENDERED| [CHECK] ... Food Stamp & Check

        └→[Chg] ... Food Stamp & Charge

There are many more combinations of medias.

NOTES: 1. In both MUTLI-TENDERING and SPLIT-TENDERING opertions, the sale is finalized and a receipt is issued on reaching the sale total amount.
2. If a media key is depressed without an amount tender entry (and if the key functions as "Total" key), the sale is then finalized on that stage processing all the balance due into that media.

CHECK CASHING (Must be operated outside a sale. May be programmed to be prohibited.)

|CHECK AMOUNT TO BE CASHED| [CHECK]

(Other non-cash media keys may be used for this purpose if programmed to allow no-purchase cashing.)

RECEIVED ON ACCOUNT (Must be operated outside a sale)

|AMOUNT OF PAYMENT| [R/A] ─────────→ (|CASH AMOUNT TENDERED|)[AT/TL]

                                 (if paid in cash)

                     → |CHECK AMOUNT TENDERED| [CHECK]

Repeatable if multi amounts   (if paid in check)
are received in one tran-   → [Chg] (if paid in charge media)
saction.   └→ Other Media finalizations

NOTES: 1. The media keys used for this operation must be programmed to allow received-on-account entries.
2. MULTI-TENDERING (page 40), SPLIT-TENDERING (this page), and SALE FINALIZATION BY CREDIT CARDS (page 39) are also applicable to the finalization of received-on-account payments.

PAID OUT (Must be operated outside a sale.)

```
|AMOUNT TO BE PAID OUT| [PO] ——→ [AT/TL]     NOTE: Only    [AT/TL]    can
↑_____|                     finalize    paid-out
```
Repeatable if multi amounts   amounts   (i.e.   must
to be paid out are recorded   always be paid out in
in one transaction.   cash.)

LOAND (Must be operated outside a sale)

```
[R/A] ─┬→ |CASH AMOUNT TO BE LOANED| [AT/TL] ─┬→ ([ST]) ——→ [AT/TL]
       │↑__                                    │
       └→ |FOOD STAMP AMOUNT TO| [FSTL TEND] ──┘
          |BE LOANED          |
          |_____|
```
Repeatable by alternating the amount and/or media.
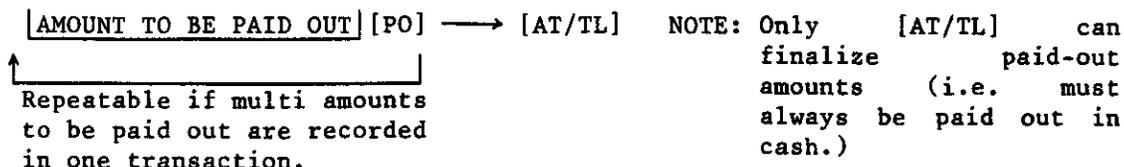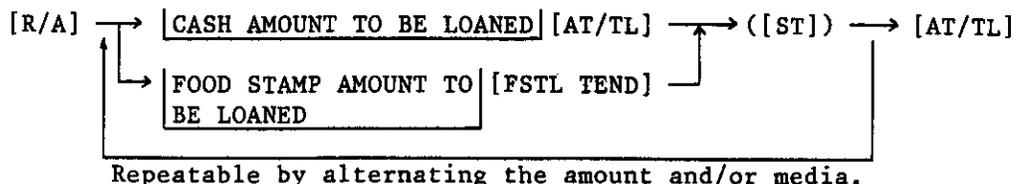
NOTES: 1. Neither [ITEM CORR] nor [VOID] will function to delete a loan
          item.
       2. No function to check the in-drawer balance turning into
          negative (by excessive Paid-Out or Pick-Up entries) is
          provided. Negative medias-in-drawer will be read in reports.

PICK UP (Must be operated outside a sale.)

The Mode Lock _must_ be turned to "MGR" position.

```
[PO] ——→ |CASH AMOUNT PICKED UP| [AT/TL] ——→ ([ST]) ——→ [AT/TL]
     ↑_____        (NOTE 1 below)                  |
         |_____|
```
Repeatable by alternating the amount and/or media.
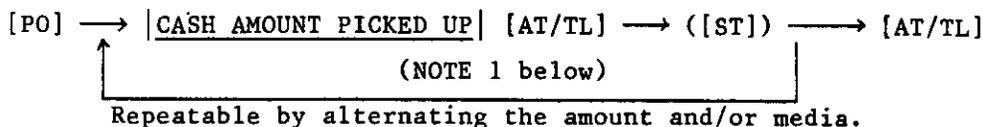
NOTES: 1. Pick-up amounts may be recorded through [AT/TL] (for cash),
          [VND CPN] (for vendor coupon), [FSTL TEND] (for food stamp),
          and other media keys whose Media-in-drawer Totals are
          programmed to be printed in In-drawer Report.
       2. An amount _must_ be entered before each media key.
       3. Neither [ITEM CORR] nor [VOID] can delete any items in a
          pick-up operation.
       4. On the depression of the [PO] key, the drawer opens. Pick-ups
          may be carried out with the drawer kept open, even if the
          "Drawer-close Compulsory" option is selected.

RECEIPT POST-ISSUE (Allowed only outside a sale.)

[RECEIPT ISSUE] ... A receipt with the total amount of the last-finalized
                    sale is issued. A programmable option provides a
                    selection not to issue the post-receipt if the last
                    sale has been finalized with the [RECEIPT ON/OFF]
                    switch positioned to 'ON'.

VALIDATION PRINT

After entering the required item through a transaction key or media key. ⟶ Insert a validation slip into the validation slot. Make sure that the "SLP" lmap is steadily lit. ⟶ [VALIDATE]

NOTES: 1. No other operations can follow until the validation slip once printed is withdrawn.
2. If the "SLP" lamp flickers during registrations, it indicates that the last item just registered has been programmed to require validation print. In this case, no other operations can follow until a validation print is executed.
3. The following are the selections programmable relating to validation:
   (1) PRINT FORMAT:
       a) Date Print/Non-print
       b) Consecutive No. Print/Non-rpint
   (2) MULTI- or SINGLE-VALIDATION
       (Number of times of validation print allowed for the same item)
   (3) VALIDATION COMPULSORY status on the following keys:
       [AT/TL], [FSTL TEND], other media keys, [RTN MDSE], [PO], [R/A], [ITEM CORR], [VOID], New Balance in charge Posting, [DOLL DISC], [%-], Negative Departments/PLUs, [BTL RTN], [VND CPN], [STR CPN].

ENDORSEMENT PRINT ON REMOTE SLIP PRINTER

After operating the required non-cash media key ⟶ Insert the check or the required slip into the Remote Slip Printer. ⟶ Enter the Check No. (if Check No. print is necessary), and then depress [CHECK NO.]

(Refer to the ENDORSEMENT PRINT in the "REMOTE SLIP PRINTER" section.)

PREVIOUS BALANCE, CHARGE POSTING

There are two types of charge posting operations; One is the PREVIOUS BALANCE MANUAL ENTRY type, in which each previous balance is entered through the numeric keyboard followed by [PB+] or [PB-] key. The other is the CUSTOEMR FILE (Check Track memory) type, in which a new account No. is opened and assigned by [CODE OPEN] key or by a "SET" mode programming operation, and the previous balance is automatically be recalled by [PICK UP BAL] key from the Customer File memory.

For the convenience of explanation, "TYPE 1" is marked for PREVIOUS BALANCE MANUAL ENTRY type, and "TYPE 2" for CUSTOMER FILE type, in the operation procedure patterns on the following pages.

1. TO INITIATE CHARGE POSTING FOR A NEW CUSTOMER

TYPE 1: |0| [PB+](or [PB-]) ────────────────────►

TYPE 2: |A Customer File Code| [PICK UP BAL] ──────►
(must be one of those already opened
in set mode and its balance must
be zero.)

    or

|A New Customer File Code| [CODE OPEN] ──────►
(any 6-digit code not yet
opened in the "SET" mode) ... This may require "MGR" position if so programmed.

────► Follow the line marked with
   "*" below.
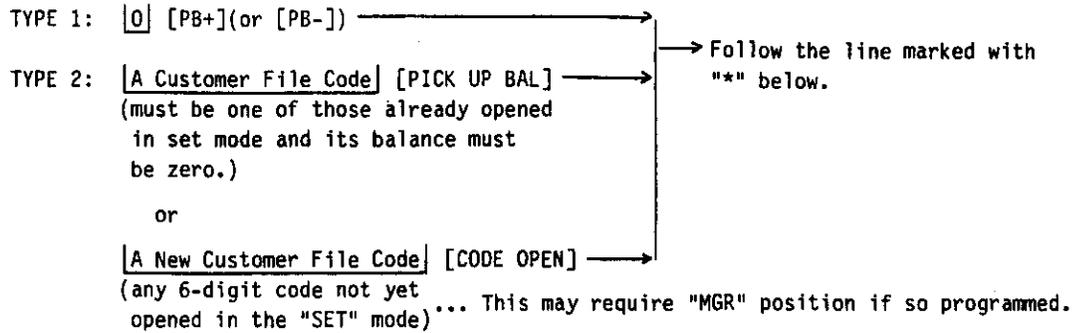
2. CHARGE POSTING WITH A PREVIOUS BALANCE FIRST ENTERED (PRE-SELECT)

TYPE 1: |PREVIOUS BALANCE| ┬─► [PB+] (for positive balance)─►
                        └─► [PB-] (for negative balance)─►

TYPE 2: |The Customer File Code| [PICK UP BAL] ──────────►
(the same code used in the above operation 1.)

* Additional registrations if any

────► ([TXBL TL]) ────────────► [Chg] ────

Displays the sale total
including taxes but
excluding the previous balance.

Finalizes the current sale, displays the
entire sale total including taxes and the
previous balance.

────► [TRF] ... to transfer all the balance as a new balance (i.e. no payment for this
occasion) [Chg] key above may be omitted in this case.

────► |AMOUNT PAID| [R/A] ────► (|Tendered Amount|) → [AT/TL] ... if paid in cash
(the amount to be
paid, partially
or entirely, for
this occasion)

────► |Tendered Amount| → [CHECK] ... if paid in check

────► Other media finalizing operations

repeatable

    NOTES: 1. The finalizing operation is basically the same as R/A payment
finalization. The payment opertion is finalized on a "Tender" media
key when the tendered amount reaches the amount declared through the
[R/A] key, or on a "Total" media key depression. The media keys used
for payment must be programmed to allow received-on-account entries.

           2. MULTI-TENDERING, SPLIT-TENDERING, and SALE FINALIZATION BY CREDIT CARD
are applicable to the payment operation.

           3. When [TRF] key is to be operated to transfer all the balance without
payment, the prior [Chg] key may be omitted.

────► [PO] ... when the balance is negative and also must be paid back to the customer
in cash now.

NOTE: Also note the special operation patterna relating to previous balance entries in the
"|-|" mode, later to be described.

3. CHARGE POSTING WITH A PREVIOUS BALANCE ENTERED DURING A SALE
(POST-SELECT)

    A previous balance may be entered not only before sale items but also after or between them if the [Chg] key has not been depressed (applicable to both TYPE 1 and TYPE 2). Multiple previous balance entries are possible within a sale (applicable to TYPE 1 only).

4. PERCENT CHARGE ADDITION TO A PREVIOUS BALANCE

    TYPE 1: |PREVIOUS BALANCE| [PB+] → (|RATE|) [%+] → ---

    TYPE 2: |Customer File Code| [PICK UP BAL] → (|RATE|) [%+] → ---

    NOTES: 1. The [%-] key operates the same for percent discounting.
           2. The previous balance picked up by the TYPE 2 operation must be a positive amount to allow % charge or discount entry.

OPERATIONS IN " -| " MODE (Mode Lock: -|)

    Instead of using the [RTN MDSE] or [VOID] keys in the "REG" or "MGR" mode for deleting individual items, the " - " mode automatically processes positive items into negative and negative into positive. To operate, turn the Mode Lock to the " - " position, and enter the items, one by one, just as in the "REG" mode, as reading the sales receipt. A positive balance resulted in the " - " mode indicates the amount to be paid back to the customer.

    If the "CUSTOMER FILE" type is selected for charge posting, the following operations should specially be noted, because exceptional procedures are required in the " - " mode:

1. Previous Balance Entry Sequence in " - " Mode

```
|Customer File Code| [PICK UP BAL] ─┐
Enter the Code                      │
recorded in the                     │
customer's sale receipt             │
                                    │
          ┌───────────────────────────────────┐
          │   ┌ for positive balance ────────┐ │ |Previous|
          └──►│                               ├─►|Balance | [AMT] → ---
              └──────────►[RTN MDSE]─┘          └────────┘
              for negative balance                   │
                                        Enter the previous balance
                                        amount recalled and printed
                                        in the customer's sale
                                        receipt.
```
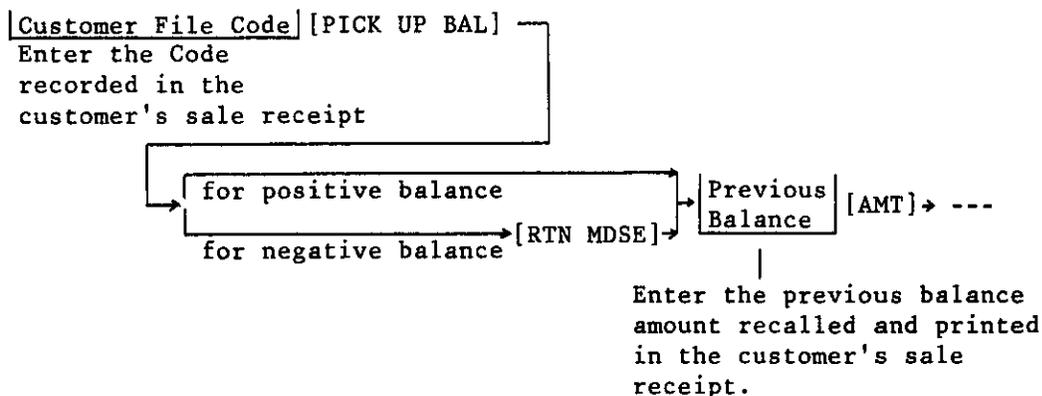
    (In the " - " mode under the CUSTOMER FILE type, the previous balance must always be entered through the [AMT] key after entering the Customer File Code through [PICK UP BAL].)

2. %+, %- Entry After a Previous Balance Item in "[-]" Mode

```
Previous Balance
Entry Sequence                   ┌────┐
described in        ──────────▶  │Rate│ [%+](or [%-]) ──────────────────────▶  - - -
"1" on the previous              └────┘        │
page                                           │     the same key
                                               │     as used in
                                               │     the sale
                                        Enter manually
                                        the same rate
                                        recorded in the
                                        sale receipt when it was
                                        the preset % rate.

                                 ┌────┐          ┌──────┐
                     ──────────▶ │Rate│ [@/FOR]  │Amount│ [%+](or [%-]) ─┘
                                 └────┘          └──────┘
                                   │               │       │
                                Enter the          │    the same key
                                same rate          │    as used in
                                recroded in        │    the sale
                                the sale
                                receipt when    Enter the amount which
                                it was a        was calculated out by
                                manul % rate.   the % rate charge or
                                                discount and recorded
                                                in the receipt.
```
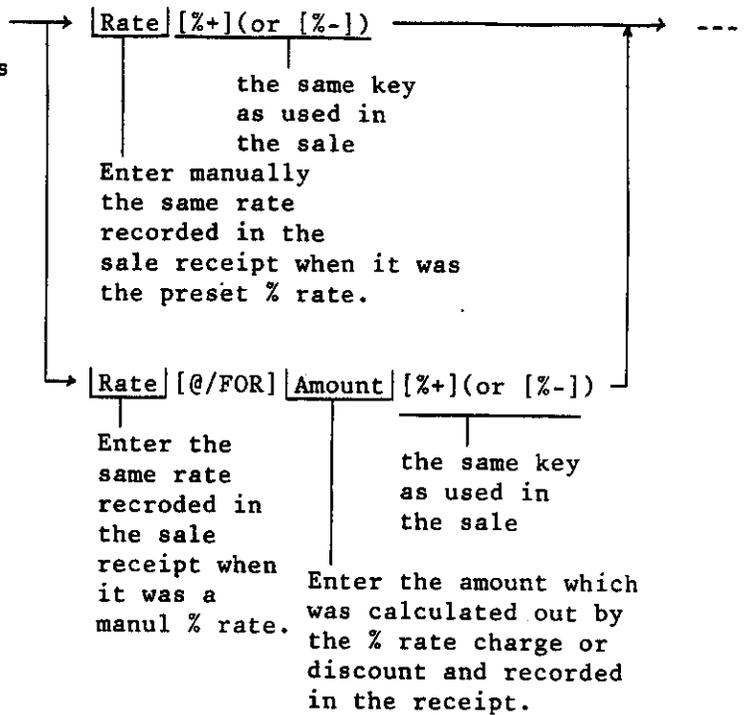
(Any %+ or %- item recorded in the "REG" or "MGR" mode must be entered manually in the "[-]" mode whether it was a preset rate or manual rate under the CUSTOMER FILE type.)

3. Scale Item Entry in "[-]" Mode

Any scale item entered in the "REG" or "MGR" mode must be entered manually (Manual Scale Entry but not Auto Scale) in the "[-]" mode under the CUSTOMER FILE type. (See page 37 for further instructions.)

TRAINING MODE

CONDITION: GP-spec. Machine ..... Any time outside a sale

GR-spce. Machine ..... In Cashier Signed-Off condition

Mode Lock must be turned to the "MGR" position.

↓

⌊_⌊ → [#] (Training Sign-On)

⌐
└─ Enter the 2-digit Training Sign-on Code preprogrammed.

A "TRAIN ON" receipt is issued.

↓

Registering operations in the Training Mode are now possible. The entries are all processed into the TRAINING total memory but will not affect the real sales totals of the normal operations.
(Since this Training Sign-On replaces a cashier sign-on, no cashier sign-on operation should be operated nor accepted during the Training Mode on a GR-spec. machine.)

↓ When the Training Mode should be ended:

Do the Training Sign-Off
(the same operation as Training Sign-On)

A "TRAIN OFF" receipt is issued.

CASHIER SIGN-ON
(on GR-spec. machine only)

```
      TEC  STORE
     1343 PEACH DRIVE
     PHONE: 87-6437


Thank you
              Call again



   05-14-86    #123456

****   SIGN   ****
         ON

White     0099 14:31TM
```

Cashier Sign-On Symbol

Cashier's Name or ID Code

NO-SALE

```
      TEC  STORE
     1343 PEACH DRIVE
     PHONE: 87-6437


Thank you
              Call again



   05-14-86    #123456

****NOSALE****

White     0102 14:33TM
```

Store Name/Message (programmable), or replaced by Store Name Stamp

Commercial Message (programmable)

Date / Register No.

No-sale Symbol

Current Time

Consecutive No.

Cashier's or Clerk's Name or ID

CASHIE SIGN-OFF
(on GR-spec. machine only)

```
      TEC  STORE
     1343 PEACH DRIVE
     PHONE: 87-6437


Thank you
              Call again



   05-14-86    #123456

****   SIGN   ****
         OFF

White     0109 14:46TM
```

Cashier Sign-Off Symbol

CHECK CASHING

```
      TEC  STORE
     1343 PEACH DRIVE
     PHONE: 87-6437


Thank you
              Call again



   05-15-86    #123456

CHECK      $50.00

White     0163 09:56TM
```

Check Amount cashed

```
      TEC  STORE
     1343 PEACH DRIVE
     PHONE: 87-6437

Thank you
            Call again


05-14-86    #123456

****PICKUP****          Pick Up Header
CASH        $50.00
V.CPN       $10.00       } Picked Up Items
CHECK        $5.00
TOTAL      $65.00       Picked Up Total

White    0111 14:48TM
```

```
      TEC  STORE
     1343 PEACH DRIVE
     PHONE: 87-6437

Thank you
            Call again
                          ┌── Department Name
05-14-86    #123456      ┌── Taxable Item Symbol
                         ┌── Food Stampable Item
VEGETABL    $1.20 TF              Symbol
FRUIT       $0.65 TF   ┐
FRUIT       $0.65 TF   } Repeat Items
FRUIT       $0.65 TF   ┘
        5X    0.50 @    5 x  $0.50@ =
MEAT        $2.50 TF    $2.50 into Dept.MEAT
TAX         $0.57       Tax due
CASH        $6.22       Sale Total and
                        finalized as Cash Sale
ITEM     9             Item Count of the Sale
White    0112 14:50TM
```

```
      TEC  STORE
     1343 PEACH DRIVE
     PHONE: 87-6437

Thank you
            Call again


05-14-86    #123456

****LOAN   ****          Loan Header
FS TL        $5.00
CASH        $20.00       } Loaned Items
SUBTL       $25.00       Subtotal
TOTAL      $25.00        Loaned Total

White    0107 14:40TM
```

```
      TEC  STORE
     1343 PEACH DRIVE
     PHONE: 87-6437

Thank you
            Call again


05-14-86    #123456

        3X    1.00/  5    3 out of 5 at $1.00
VEGETABL    $0.60 TF     = $0.60
TAX         $0.06
CASH        $0.66

ITEM     3
White    0133 15:25TM
```

PLU, REPEAT, QUANTITY EXTENSION,
SPLIT PACKAGE PRICING, TRADE STAMP

LINK DEPARTMENT

```
      TEC  STORE
     1343 PEACH DRIVE
      PHONE: 87-6437

  Thank you
                Call again


  05-14-86     #123456
```
—————PLU Name
```
  Milk-L        $1.25 TF
  WhiBread      $1.20 TF
  WhiBread      $1.20 TF
         5X      0.50  @
  Tuna Can      $2.50 TF
         3X      1.00/  6
  Tomato        $0.50 TF
  TAX           $0.67
  CASH          $7.32

  TRDSTP        $0.62
  ITEM    11
  White    0115 14:55TM
```

} Repeated Items

5 x $0.50@ = $2.50 ⌉
   PLU "Tuna Can"⌋

3 out of 6 at $1.00 ⌉
= $0.50 PLU "Tomato"⌋

Trade Stamp to be
   issued to the customer

```
      TEC  STORE
     1343 PEACH DRIVE
      PHONE: 87-6437

  Thank you
                Call again


  05-14-86     #123456

  DRINK         $2.50 T
  BTL DEPO↑     $0.60
  TAX           $0.25
  CASH          $3.35

  TRDSTP        $0.25
  ITEM     2
  White    0130 15:17TM
```

Head-link Dept.
Sub-link Dept

(Symbol "↑" indicates
  the Sub-link Dept.)

LINK PLU

AUTO SCALE, MANUAL SCALE

```
      TEC  STORE
     1343 PEACH DRIVE
      PHONE: 87-6437

  Thank you
                Call again


  05-15-86     #123456

  1.00LB@    2.50/½LB
  MEAT          $5.00 TF
  6.00LB@    3.00/½LB
  Beef     *   $36.00 TF
  TAX           $4.10
  CASH         $45.10

  ITEM     2
  White    0152 09:30TM
```

"*" indicates
a manual scale item
(No symbol attached
for an auto scale
item.)

Auto Scale:
1lb x $2.50(½lb unit price)
= $5.00 into Dept.MEAT
] Manual Scale

```
      TEC  STORE
     1343 PEACH DRIVE
      PHONE: 87-6437

  Thank you
                Call again


  05-14-86     #123456

          6X      4.80/  6
  Coke          $4.80 T
          6X      0.30/  6
  Bottle A↑     $0.30
          4X      4.80/  6
  7-UP          $3.20 T
          4X      0.30/  6
  Bottle A↑     $0.20
  TAX           $0.80
  CASH          $9.30

  TRDSTP        $0.80
  ITEM    20
  White    0132 15:20TM
```

] Head-link PLU

] Sub-link PLU

(Symbol "↑" indicates
  the Sub-link PLU.)

- 49 -

RETURNED MERCHANDISE

```
      TEC STORE
    1343 PEACH DRIVE
    PHONE: 87-6437

Thank you
             Call again


  05-14-86     #123456

RTN
FRUIT           $2.30-TF
RTN
        3X      4.80/ 6
Coke            $2.40-T
RTN
        3X      0.30/ 6
Bottle At       $0.15-
TAX             $0.47-
CASH            $5.32-

ITEM    -7
White    0134 15:25TM
```

Dept. FRUIT $2.30
is returned

PLU "Coke"
3 out of 6 at $4.80
is returned

Sub-link PLU to
the above "Coke"
also returned

Negative Balance
(The amount should
be returned to
the customer in
cash.)

%+, %-

```
      TEC STORE
    1343 PEACH DRIVE
    PHONE: 87-6437

Thank you
             Call again


  05-14-86     #123456

DAIRY           $4.50 TF
%-
        5%      $0.23-
        3X      0.80/ 4
HardRoll        $0.60 TF
SUBTL           $4.87
%+
       10%      $0.49
TAX             $0.51
CASH            $5.87

TRDSTP          $0.51
ITEM     4
White    0136 15:28TM
```

5% discount from
the above DAIRY item

10% charge to
the above subtotal amount

DOLLAR DISCOUNT

```
      TEC STORE
    1343 PEACH DRIVE
    PHONE: 87-6437

Thank you
             Call again


  05-14-86     #123456

FISH            $1.30 TF
BAKERY          $3.20 TF
DISC            $0.50-
TAX             $0.45
CASH            $4.45

TRDSTP          $0.32
ITEM     2
White    0135 15:27TM
```

Discount Amount $0.50

STORE COUPON, CASH TENDER

```
      TEC STORE
    1343 PEACH DRIVE
    PHONE: 87-6437

Thank you
             Call again


  05-14-86     #123456

RyeBread        $1.20 TF
KiwiJam         $1.90 TF
S.CPN
BAKERY          $1.00-TF
TAX             $0.21
TOTAL           $2.31
CATEND          $3.00
CHANGE          $0.69

TRDSTP          $0.21
ITEM     2
White    0138 15:33TM
```

Store Coupon $1.00
into Dept. BAKERY

Sale Total
Cash Amount Tendered
Change due

VENDOR COUPON, CHECK TENDER

```
     TEC  STORE
     1343 PEACH DRIVE
     PHONE: 87-6437

Thank you
              Call again


  05-14-86     #123456


        1X     1.50/  6
E99           $0.25 TF
DP13          $1.40
       12X     4.80/  6
7-up          $9.60 T
       12X     0.30/  6
Bottle At      $0.60
V.CPN         $5.00-       Vendor Coupon $5.00
TAX           $0.99
TOTAL         $7.84
CHECK        $10.00
CHANGE        $2.16

TRDSTP        $0.99
ITEM   26
White   0139 15:35TM
```

ITEM CORRECT, VOID, CHARGE TOTAL

```
     TEC  STORE
     1343 PEACH DRIVE
     PHONE: 87-6437

Thank you
              Call again


  05-14-86     #123456

VEGETABL     $1.50 TF  ←
FRUIT-------$2.30-TF    Item Correct
VOID                   ] The 1st line item voided
VEGETABL     $1.50-TF
FRUIT        $2.20 TF
VEGETABL     $3.60 TF
SUBTL        $5.80
TAX          $0.58
Chg          $6.38     Finalized as Charge Sale

ITEM    2
White   0146 15:47TM
```

BOTTLE RETURN, MISC TENDER

```
     TEC  STORE
     1343 PEACH DRIVE
     PHONE: 87-6437

Thank you
              Call again


  05-14-86     #123456

BTL FOOD     $2.60 TF
SNACK        $3.50 TF
BTR          $0.60-      Bottle Returned $0.60
TAX          $0.61
TOTAL        $6.11       Sale Total
MISC         $7.00       Misc Media Tendered
CHANGE       $0.89       Change due

TRDSTP       $0.61
ITEM    2
White   0144 15:42TM
```

FOOD STAMP TENDER

```
     TEC  STORE
     1343 PEACH DRIVE
     PHONE: 87-6437

Thank you
              Call again


  05-15-86     #123456

VEGETABL     $1.20 TF
FRUIT        $2.30 TF
MEAT         $4.10 TF
TAX          $0.76
TOTAL        $8.36       Sale Total
FS/TL        $8.36       Food Stampable Total
F-STMP      $10.00       Food Stamp Tendered
CHANGE       $0.64       Change in Cash
FS CHG       $1.00       Change in Food Stamp

ITEM    3
White   0155 09:40TM
```

MULTI-TENDERING

```
         TEC  STORE
        1343 PEACH DRIVE
        PHONE: 87-6437

   Thank you
                   Call again


    05-15-86    #123456

   CAN FOOD     $1.20 TF
   FISH         $6.40 TF
   FRUIT        $3.00 TF
   TAX          $1.06
   TOTAL       $11.66        Sale Total
   CATEND       $5.00        1st Cash Tendered
   CASH         $6.66        2nd Cash paid

   TRDSTP       $0.12
   ITEM     3
   White    0157 09:44TM
```

SPLIT-TENDERING

```
         TEC  STORE
        1343 PEACH DRIVE
        PHONE: 87-6437

   Thank you
                   Call again


    05-15-86    #123456

   FISH         $1.20 TF
   MEAT         $3.30 TF
   BTL FOOD     $6.00 TF
   TAX          $1.05
   TOTAL       $11.55        Sale Total
   CHECK        $5.00        Check Tendered Portion
   CATEND       $3.00        Cash Tndered Portion
   CRTTL1       $3.55        Credit 1 Total Portion

   TRDSTP       $0.60
   ITEM     3
   White    0156 09:43TM
```

SELECTIVE ITEMIZER (IS) READ

```
         TEC  STORE
        1343 PEACH DRIVE
        PHONE: 87-6437

   Thank you
                   Call again


    05-15-86    #123456

   DRINK        $2.50 T
   BTL DEPOT    $0.30
   DP13         $1.40
   SI1 TL       $0.18        SI 1 Total Read
   TAX          $0.25
   CASH        $4.45

   TRDSTP       $0.25
   ITEM     3
   White    0162 09:54TM
```

TAX EXEMPTION

```
         TEC  STORE
        1343 PEACH DRIVE
        PHONE: 87-6437

   Thank you
                   Call again


    05-15-86    #123456

              6X    1.50/  6
   E99          $1.50 TF
   CAN FOOD     $6.20 TF
   TAX1EX       $7.70        Tax-exempted Sale Portion
   CASH        $7.70         Sale Total due

   TRDSTP       $0.77
   ITEM     7
   White    0158 09:47TM
```

NON-ADD NUMBER, CREDIT CARD SALE

```
     TEC STORE
   1343 PEACH DRIVE
   PHONE: 87-6437

Thank you
            Call again


05-14-86    #123456

DAIRY        $6.20 TF
CAN FOOD     $5.20 TF
#123456789
TAX          $1.14
ABC         $12.54


TRDSTP       $1.14
ITEM    2
White   0147 15:49TM
```

─ (ex. Customer ID No.
     of the Credit Card
Non-add No. ─

Credit Card Company
Name and Sale Total
(finalized by
      [CARD NO.])

RECEIPT POST-ISSUE ([RECEIPT ISSUE] Key)

```
     TEC STORE
   1343 PEACH DRIVE
   PHONE: 87-6437

Thank you
            Call again


05-15-86    #123456

FISH         $1.20 TF
MEAT         $6.40 TF
TAX          $0.76
TOTAL        $8.36
CATEND      $10.00
CHANGE       $1.64

ITEM    2
White   0151 09:27TM
```

Normal Receipt
to be issued for
each sale

```
05-15-86    #123456

TOTAL        $8.36

White    0151 09:27TM
```

Post-issued Receipt
for the last sale

Only the Total Amount is
printed.
The Consecutive No. is
identical to that of
the last-finalized sale.

RECEIVED ON ACCOUNT

```
     TEC STORE
   1343 PEACH DRIVE
   PHONE: 87-6437

Thank you
            Call again


05-15-86    #123456

R/A          $7.50
R/A          $6.00
CASH        $13.50

White   0149 09:25TM
```

} R/A Items

Total Received in
Cash

PAID OUT

```
     TEC STORE
   1343 PEACH DRIVE
   PHONE: 87-6437

Thank you
            Call again


05-15-86    #123456

PO           $6.00
PO           $8.00
TOTAL       $14.00

White   0150 09:26TM
```

} PO Items

Paid-Out Total

Debit Balance

```
      TEC STORE
    1343 PEACH DRIVE
     PHONE: 87-6437

Thank you
              Call again


   05-15-86     #123456

#3421
PB+              $0.00
VEGETABL         $3.50 TF
MEAT             $2.40 TF
TAX              $0.59
Chg              $6.49

N-BAL            $6.49

ITEM      2
White     0180 10:36TM
```

1) New Customer

ex. Customer No.

Non-add No.
"0" as PB for new cus.
} Sale Items

Sale Total

New Balance
(All the balance is
 transferred in this
 case)

```
   05-15-86     #123456

#3421
PB+              $6.49
        3X    0.45  a
Soup Can         $1.35 TF
TAX              $0.14
Chg              $7.98

N-BAL            $7.98

TRDSTP           $0.14
ITEM      3
White     0181 10:37TM
```

2) Additional
     Sale

Previous Balance

Additional Sale Item

Sale Total (including PB in this case)

New Balance

```
   05-15-86     #123456

#3421
PB+              $7.98
Chg              $7.98

R/A              $7.98
CATEND          $10.00
CHANGE           $2.02

N-BAL            $0.00

ITEM      0
White     0182 10:38TM
```

3) Payment

Previous Balance
Sale Total

Total of Payment
Cash Tendered
Change due

No new balance
remains since all
paid.

Credit Balance

```
      TEC STORE
    1343 PEACH DRIVE
     PHONE: 87-6437

Thank you
              Call again


   05-15-86     #123456

PB+              $0.00
VEGETABL         $2.50 TF
MEAT             $3.60 TF
TAX              $0.61
Chg              $6.71

R/A             $10.00
CASH            $10.00

N-BAL            $3.29-

ITEM      2
White     0168 10:05TM
```

1) New Customer

"0" as PB for new cus.
} Sale Items

Sale Total

Payment Amount
Received in Cash

New Balance
(credit balance)

```
      TEC STORE
    1343 PEACH DRIVE
     PHONE: 87-6437

Thank you
              Call again


   05-15-86     #123456

PB-              $3.29-
Chg              $3.29-

CHANGE           $3.29

N-BAL            $0.00

ITEM      0
White     0169 10:06TM
```

2) Balance Paid Back
     to the Customer

Previous Balance
Sale Total

Amount Refunded
to the customer
No   balance remains

TEC STORE
1343 PEACH DRIVE
PHONE: 87-6437

Thank you
              Call again

05-15-86   #123456

#000001	$0.00	
DP01	$1.20	
MEAT	$3.50	TF
TAX	$0.35	
Chg	$5.05	

N-BAL $5.05

ITEM   2
White   0009 13:20TM
              Call again

Debit Balance

1) New Customer

Cus.File Code (PB=0)
} Sale Items

Sale Total

New Balance ——

2) Additional Sale

05-15-86   #123456

#000001	$5.05	
1X	1.00/ 6	
Tomato	$0.17	TF
TAX	$0.02	
Chg	$5.24	

N-BAL $5.24

ITEM   1
White   0010 13:20TM
              Call again

PB Recalled ←
} Additional Sale Items

Sale Total (including PB in this case)

New Balance ——

3) Payment

05-15-86   #123456

| #000001 | $5.24 |
| Chg | $5.24 |

R/A	$5.24
CATEND	$10.00
CHANGE	$4.76

N-BAL $0.00

ITEM   0
White   0011 13:21TM

PB Recalled ←
Sale Total

Total of Payment
Cash Tendered
Change due

No balance remains

TEC STORE
1343 PEACH DRIVE
PHONE: 87-6437

Thank you
              Call again

05-15-86   #123456

#000033	$0.00	
MEAT	$2.00	TF
TAX	$0.20	
Chg	$2.20	

| R/A | $5.00 |
| CASH | $5.00 |

N-BAL $2.80-

ITEM   1
White   0012 13:22TM

Credit Balance

1) New Customer

Cus.File Code (PB=0)
Sale Item

Sale Total

New Balance ——

TEC STORE
1343 PEACH DRIVE
PHONE: 87-6437

Thank you
              Call again

05-15-86   #123456

| #000033 | $2.80- |
| Chg | $2.80- |

| CHANGE | $2.80 |

N-BAL $0.00

ITEM   0
White   0013 13:23TM

PB Recalled ←
Sale Total

Amount Refuned

No balance remains

- 55 -

TRAINING MODE SIGN-ON

```
TEC STORE
1343 PEACH DRIVE
PHONE: 87-6437

Thank you
         Call again


05-15-86   #123456

****TRAIN ****
    ON

JONES   0007 12:46TM
```

Training Sign-On
Symbol

RECEIPT ISSUED DURING TRAINING MODE

```
TEC STORE
1343 PEACH DRIVE
PHONE: 87-6437

Thank you
         Call again


05-15-86   #123456

****TRAIN ****
DP01      $1.20
CASH      $1.20

ITEM    1
JONES   0007 12:46TM
```

Training Mode Header

] Registered Items

TRAINING MODE SIGN-OFF

```
TEC STORE
1343 PEACH DRIVE
PHONE: 87-6437

Thank you
         Call again


05-15-86   #123456

****TRAIN ****
    OFF

JONES   0008 12:47TM
```

Training Sign-Off
Symbol

VALIDATION PRINT SAMPLES

(RECEIPT)   (VALIDATION PRINT)

	Cashier or Clerk ID Code	Item Name	
Date	Receipt Consec.NO.		Amount

05-15-86 01CL0170   VEGETABL $2.50 TF

```
  TEC  STORE
 1343 PEACH DRIVE
 PHONE: 87-6437

Thank you
          Call again


 05-15-86    #123456

VEGETABL    $2.50 TF
Tuna Can    $0.50 TF
RTN
FRUIT       $1.20-TF
SUBTL       $1.80
%+
      10%   $0.18
TAX         $0.18
ABC         $2.16

TRDSTP      $0.05
ITEM    1
White   0170 10:08TM
```

05-15-86 01CL0170   Tuna Can $0.50 TF

05-15-86 01CL0170 RTN   FRUIT $1.20-TF

05-15-86 01CL0170 RTN   SUBTL $1.80

05-15-86 01CL0170 %+   10% $0.18

05-15-86 01CL0170   ABC $2.16

READ(X) AND RESET(Z) REPORTS

The following table shows the key operation to take each report. The "X" and "Z" reports have exactly the same print content if both are available, except that:

1. The "X" reports allow to read the sales data but not clear memories, while the "Z" reports allow to read the sales data and at the same time all the resettable memories will be cleared when the reports have been issued.

2. The symbol "X" is printed on the top line of an "X" report, while "Z" is printed on a "Z" report, to indicate the type of report.

3. A reset count is printed on the bottom of a "Z" report only.

TABLE OF OPERATIONS FOR X AND Z REPORTS

Daily Reports

REPORT NAME	MODE LOCK	KEY OPERATION	SAMPLE PAGE
ALL MEDIA TOTAL AND CASH-IN-DRAWER READ	X	[#] (Drawer opens)	63
MEDIA SALES AND IN-DRAWER TOTAL READ	X	9 [AT/TL] (Drawer opens)	63
CUSTOMER FILE READ (available for CUSTOMER FILE Type only) . All Files . Individual Files . Zero-Balance Files . Debit-Balance Files . Credit-Balance Files	X	[PICK UP BAL] |Customer File Code|[PICK UP BAL] 0 [CODE OPEN] 1 [CODE OPEN] 2 [CODE OPEN]	64
CREDIT CARD COMPANY SALES READ	X	6 [AT/TL]	65
CLERK READ AND RESET (not available for GR-spec. machine with "Clerk Non-print" option) . Individual Clerk Read . Individual Clerk Reset	X / Z	] Set the required Clerk Key to ON, 4 [AT/TL]. (Drawer opens.)	66
CASHIER READ AND RESET (for GR-spec. machine only) . Individual Cashier Read . Individual Cashier Reset	X / Z	⌐2-digit manager-assign code ↓] |Cashier ID Code| [LOG] (Drawer opens)	67
SALES PERSON READ AND RESET (for GP-spec. machine only) . All Sales Persons Read . All Sales Persons Reset	X / Z	] 5 [AT/TL].	65
HOURLY READ AND RESET . Hourly Read . Hourly Reset	X / Z	] 10 [AT/TL]	68
DEPARTMENT READ AND RESET . Individual Department Read	X	Depress the required Dept Keys, one by one, [ST] may be used to obtain subtotal, [AT/TL] to end.	69
. All Department Read . All Department Reset	X / Z	] 11 [AT/TL]	70

-- To be continued --

REPORT NAME	MODE LOCK	KEY OPERATION	SAMPLE PAGE
-- Continued --			
. Department Gross Profit Read	X	7 [AT/TL]	71
. Department Group and Major Group Read	X	8 [AT/TL]	72
PLU READ AND RESET			
. Individual PLU Read	X	|PLU Code| [PLU] ([ST]) [AT/TL] ↑_____| Repeatable to end	73
. Zone PLU Read . Zone PLU Reset	X Z	] |Zone-start PLU Code| [@/FOR] |Zone-end PLU Code| [PLU]	73
. Sorted PLU Read . Sorted PLU Reset	X Z	] |_|_|_|_|_|_|_|_| [PLU] PLU-sort Code | Enter a 8-digit number composed of at lease one decimal point ([.] key) and any mumerics. ex.) When inputs |.|.|.|.|.|.|.|2|: ↓ outputs PLUs of PLU codes: 00000002, 00000012 ... ... 99999992 When inputs |1|1|.|.|.|.|.|.|: ↓ outputs PLUs of PLU codes: 11000000, 11000001 11999999	74
. All PLU Read . All PLU Reset	X Z	] [PLU]	74
. Individual PLU Stock Read (available only for PLUs with stock status on)	X	[AMT] |PLU Code| [PLU] [AT/TL] ↑_____| Repeatable	75
. Zone PLU Stock Read	X	[AMT] |Zone-start PLU Code| [@/FOR] |Zone-end PLU Code| [PLU] (Only the PLUs with stock status on in the zone will output.)	
. All PLU Stock Read	X	[AMT] [PLU] (Of all PLUs, only the PLUs with stock status on will output.)	75
. Non-active PLU Read	X	5 [#] [PLU]	75

-- To be continued --

REPORT NAME	MODE LOCK	KEY OPERATION	SAMPLE PAGE
		-- Continued --	
DEPARTMENT AND PLU ABC ANALYSIS READ	X		
. Best Selling Departments in Quantity		1[#](Ending Rank No.)[AT/TL] ex.) If "4" is entered, the best 1 to 4 depts will output. (Also see "NOTE 2)" below)	76
. Best Selling PLUs (linked to the same department) in Quantity		1[DEPT](Ending Rank No.)[PLU]	76
. Best Selling Departments in Amount		2[#](Ending Rank No.)[AT/TL]	
. Best Selling PLUs (linked to the same department) in Quantity		2[DEPT](Ending Rank No.)[PLU]	
. Worst Selling Departments in Quantity		3[#](Ending Rank No.)[AT/TL]	
. Worst Selling PLUs (linked to the same department) in Quantity		3[DEPT](Ending Rank No.)[PLU]	
. Worst Selling Departments in Amount		4[#](Ending Rank No. [AT/TL]	
. Worst Selling PLUs (linked to the same department) in Amount		4[DEPT](Ending Rank No.)[PLU] NOTES 1) Depts or PLUs with sales data of "0" or negative value will not output. 2) If the "Ending Rank No." is skipped before [PLU] or [AT/TL], all the Depts or PLUs (except those described in NOTE 1) will output in the rank order. 3) For PLU Analysis Reports, "[DEPT]" indicates the linked Dept Key of the rquired PLUs.	
FINANCIAL READ AND RESET . Financial Read . Financial Reset	X Z	] 3 [AT/TL] (Drawer opens)	77

GT Reports (to be taken on weekly or monthly basis)

REPORT NAME	GT LOCK	KEY OPERATION	SAMPLE PAGE
		Mode Lock: any position (Except the Mode Lock and GT Lock positions, the key operation for each report is the same as its corresponding daily report.)	
DEPARTMENT GT READ AND RESET . All Department GT Read . All Department GT Reset	GTX GTZ	] 11 [AT/TL]	
. Department Gross Profit GT Read	GTX	7 [AT/TL]	
. Department Group and Major Group GT Read	GTX	8 [AT/TL]	79
FINANCIAL GT READ AND RESET . Financial GT Read . Financial GT Reset	GTX GTZ	] 3 [AT/TL] (Drawer opens.)	
CREDIT CARD COMPANY SALES GT READ	GTX	6 [AT/TL]	
DEPARTMENT ABC ANALYSIS GT READ (No PLU reports are available.)	GTX	Follow the same key operation for each type of DEPARTMENT ABC ANALYSIS READ reports described on page 60.	

Combination Reports

Multiple reports can be programmed to be issued in one operation sequence. The following are reports programmable for combinations:(max. 5 reports in one table, max. 3 tables):

REPORT NAME	AVALABLE MODE
Financial Read/Reset	X, Z, GTX, GTZ
Individual Clerk Read/Reset	X, Z
Sales Person Read/Reset	X, Z
Credit Card Company Read	X, GTX
Department Gross Profit Read	X, GTX
Dept Group and Major GP Read	X GTX
Media Sales and In-drawer Total Read	X
Hourly Read/Reset	X, Z
All Department Read/Reset	X, Z, GTX, GTZ

KEY OPERATION: Mode Lock: X for Daily Read
                        Z for Daily Reset
              GT Lock: GTX for GT Read
                       GTZ for GT Reset   ⟶ ⊔ [AT/TL]

Enter the Report Combination-ID No.
      None (simply depress [AT/TL]): Combination Report Table No.1
      1: Combination Report Table No.2
      2: Combination Report Table No.3

NOTES: When the mode set for taking comination reports does not match the mode of a report contained in the table, that report will be skipped.

When the Clerk Read/Reset Report is contained in the table, all the clerks' reports output.

If no combination reports data have been programmed, Combination Report Table No.1 (which can be issued by depressing the [AT/TL] key alone) is auto-preset with "Dept Group and Major GP Read" and "Financial Read/Reset" reports contained.

The report output order is determined by the order programmed in each table.

The drawer will open when a contained report is ruled to open the drawer.

NOTES on REPORT TAKINGS

1. No clerk keys are necessary to issue reports except Individual Clerk Read or Reset Reports. (When those reports are to be taken in a Combination Report operation, no clerk keys will be necesary.)

2. On a GR-spec. machine, Cashier Sign-Off is required before taking any reports (an error will result on attempt to turning the Mode Lock to X or Z or GT Lock to GTX or GTZ, in a cashier sign-on condition).

3. Refer to the report print samples on the following pages, as to detail contents of each report.

4. Reset reports will be printed on the receipt roll as well as on journal, and issued regardless of the current [RECEIPT ON/OFF] switch position.

5. The [ITEM CORR] (or [IC/VD]) key may be depressed halfway during printing a report, for the purpose to abort the receipt issuance (except for some short reports). When report-abort has been operated for a reset report, the memories of the report data will not be cleared.

6. The drawer will open at the starting of printing the reports which are stated with "Drawer opens" in the table on pages 58 to 61. The drawer remain closed on taking other reports.

7. As for PROGRAMMED DATA VERIFICATION operations, which are also available in the "X" mode, see the "VERIFICATION OF PROGRAMMED DATA" near the end of the PROGRAMMING MANUAL separately issued.

ALL MEDIA TOTAL AND CASH-IN-DRAWER READ
(Mode Lock: X, depress [#])

MEDIA SALES AND IN-DRAWER TOTAL READ
(Mode Lock: X, enter 9, depress [AT/TL])

Left receipt

```
      TEC  STORE
     1343 PEACH DRIVE
     PHONE: 87-6437

Thank you
              Call again


05-15-86    #123456

        X12
TOTAL           53CU
               306.52
CAID           113.11

        0196 10:54TM
```

	Report ID Header
TOTAL 53CU	Total Customer Count
306.52	All-Medias Total
CAID 113.11	Cash-in-drawer Amount

Right receipt

```
      TEC  STORE
     1343 PEACH DRIVE
     PHONE: 87-6437

Thank you
              Call again


05-15-86    #123456

        X09
TOTAL           53CU
               306.52
CASH            27CU
               157.86
CHECK            3CU
                28.46
Chg              5CU
                35.42
MISC             1CU
                 6.11
CRTTL1           1CU
                 3.55
CRTTL2           0CU
                 0.00
CRTTL3           0CU
                 0.00
FS TL            2CU
                16.72
CAID           113.11
CKID             5
                92.00
MISCID           1
                 7.00
FSID             4
                28.00
FS CG            1.28
PBTL            14CU
                58.40

        0185 10:43TM
```

TOTAL 53CU	Total Customer Count
306.52	All-Medias Total
CASH 27CU	Cash Customer Count
157.86	" Sales Total
CHECK 3CU	Check Customer Count
28.46	" Sales Total
Chg 5CU	Charge Customer Count
35.42	" Sales Total
MISC 1CU	Misc Customer Count
6.11	" Sales Total
CRTTL1 1CU	Credit 1 Customer Count
3.55	" Sales Total
CRTTL2 0CU	Credit 2 Customer Count
0.00	" Sales Total
CRTTL3 0CU	Credit 3 Customer Count
0.00	" Sales Total
FS TL 2CU	Food Stamp Cus. Count
16.72	" Sales Total
CAID 113.11	Cash-in-drawer Amount
CKID 5	Check-in-drawer Count
92.00	" Amount
MISCID 1	Misc-in-drawer Count
7.00	" Amount
FSID 4	Food Stamp-in-draewer C't
28.00	" Amt
FS CG 1.28	Food Stamp Change
PBTL 14CU	Previous Balance Customer
58.40	" " Total

- 63 -

All Files
(Depress
 [PICK UP BAL])

```
    TEC  STORE
    1343 PEACH DRIVE
    PHONE: 87-6437

Thank you
               Call again


05-15-86    #123456

          X19
#000001          5.60
#000002          0.00
#000003          2.53
#000004          0.00
#000005        . 0.00
#000006          0.00
#000007          0.00
#000008          0.00
#000009          0.00
#000033          0.00
#000101         -8.46
#000102          0.00
#000103          0.00
#000104          0.00

         0022 13:27TM
```

— Balance

— Customer File Code

Zero-Balance Files

(Enter 0, depress
     [CODE OPEN])

```
    TEC  STORE
    1343 PEACH DRIVE
    PHONE: 87-6437

Thank you
               Call again


05-15-86    #123456

          X19
#000002          0.00
#000004          0.00
#000005          0.00
#000006          0.00
#000007          0.00
#000008          0.00
#000009          0.00
#000033          0.00
#000102          0.00
#000103          0.00
#000104          0.00

         0024 13:28TM
```

Debit-Balance Files
(Enter 1, depress
     [CODE OPEN])

```
    TEC  STORE
    1343 PEACH DRIVE
    PHONE: 87-6437

Thank you
               Call again


05-15-86    #123456

          X19
#000001          5.60
#000003          2.53

         0025 13:28TM
```

Individual Files
(Enter the required
 Customer File Code,
 depress [PICK UP BAL])

```
    TEC  STORE
    1343 PEACH DRIVE
    PHONE: 87-6437

Thank you
               Call again


05-15-86    #123456

          X19
#000003          2.53

         0023 13:27TM
```

Credit-Balance Files
(Enter 2, depress
     [CODE OPEN])

```
          X19
#000101         -8.46

         0026 13:28TM
```

CREDIT CARD COMPANY SALE READ
(Mode Lock: X, enter 6, depress [AT/TL])

```
 TEC  STORE
1343 PEACH DRIVE
 PHONE: 87-6437


Thank you
         Call again


05-15-86   #123456

        X06
ABC            2
            14.70
CRT20        . 3
            20.72


JONES   0190 10:48TM
```

Company Name (programmable) / Operation Count
    Sales Total Amount
"CRT20" is provided as "Other Credit Company Cards Sales" memory
into which sales are processed when no company designation (through
[CARD NO.] Key) has been made or when "20" is entered thorugh
[CARD NO.] Key.

NOTE: Sum of all the CREDIT COMPANY SALES is also processed
       into the Charge Sales Total Memory

SALES PERSON READ AND RESET (Mode Lock: X for Read or Z for Reset, enter 5, depress [AT/TL].)

Sales Person Reset Report Sample

```
05-15-86   #0

       Z05
01 BROWN
GS          11
         63.77
NS2         11
         63.77
02 CARTER
GS           2
          6.70
NS2          2
          6.70
0001Z

        0017 15:13TM
```

Sales Person ID Code and Name (The name is programmable)
    Gross Sale Item Count
      "   "   Amount
    Net Sale (With Tax in this sample) Item Count
      "   "   "   Amount

    NOTE: As for the Net Sale output, whether "Net Sale Without Tax"
          or "Net Sale With Tax" is printed is determined by a
          programmable option selection.

CLERK READ AND RESET (Mode Lock: X for Read or Z for Reset, Set the required Clerk Key to ON, enter 4, depress [AT/TL].)

Clerk Reset Report Sample

Sample Opertion: Required Clerk: JONES (Clerk Key 1)

Mode Lock: Z, Clerk Key 1 to ON, 4 [AT/TL]

```
    TEC STORE
   1343 PEACH DRIVE
   PHONE: 87-6437

Thank you
            Call again


05-15-86    #123456

       Z04
JONES
GS            173
           307.63
NS1           161
           268.96
NS2           161
           293.48
TOTAL        48CU
           287.06
CAID       123.65
CKID        97.00
MISCID       7.00
FSID        23.00
V.CPN        5.00
NEG1        14.15
NEG2         1.42
R/A         13.50
PO          14.00
LOAN        25.00
PICKUP       0.00
TAX         24.52
IT/CUS       3.35
NS/CUS       5.60
NOSALE       3
0001Z


JONES  0228 11:35TM
```

Clerk Name (if name programmed) or Clerk ID Code (if name not programmed)
Gross Sale Item Count
" " Amount
Net Sale (Without Tax) Item Count
" " " " Amount
Net Sale (With Tax) Item Count
" " " " Amount
All Media Sales Customer Count
" " " Total
Cash-in-drawer Amount
Check-in-drawer Amount
Misc-in-drawer Amount
Food Stamp-in-drawer Amount
Vendor Coupon Total
Negative 1 Total (NOTE 1 below)
Negative 2 Total (NOTE 2 below)
Received-on-Account Total
Paid-Out Total
Loan Total
Pick Up Total
Tax Total
Item Count per Customer
Net Sale per Customer
No-sale Count
Individual Clerk Reset Report Count

NOTE 1: Negative 1 Total
         = (%- on Item) + (Negative Depts) + (Item Corr on Positive
           Depts) + (Void on Positive Depts) + (Bottle Return
           Dept-link) + (Store Coupon) + (Return Merchandise)
           + (Negative Mode Total) + (Negative Tax)

NOTE 2: Negative 2 Total
         = (%- on Subototal) + (Dollar Discount) + (Bottle Return
           Inside-sale) + (Item Corr or Void on Other Items those
           included in "Negative 1 Total")

Cashier Reset Report Sample

<u>Sample Operation:</u> To take the cashier reset report of Cashier "White" (ID Code: 01)

Mode Lock: Z, enter 01, depress [LOG].)

Receipt	Description
TEC STORE	
1343 PEACH DRIVE	
PHONE: 87-6437	
Thank you	
Call again	
05-15-86 #123456	
Z 13	
01 White	Cashier ID Code / Cashier's Name
GS 197	Gross Sale Item Count
327.09	" " Amount
NS 1 185	Net Sale (Without Tax) Item Count
287.06	" " " " Amount
NS 2 185	Net Sale (With Tax) Item Count
312.94	" " " " Amount
TOTAL 53CU	All Media Sales Customer Count
306.52	" " " Amount
CAID 113.11	Cash-in-drawer Amount
CKID 92.00	Check-in-drawer Amount
MISCID 7.00	Misc-in-drawer Amount
FSID 28.00	Food Stamp-in-drawer Amount
V.CPN -5.00	Vendor Coupon total
NEG1 14.15	Negative Total 1 (See "NOTE 1" on the previous page.)
NEG2 1.42	Negative Total 2 (See "NOTE 2" on the previous page.)
R/A 13.50	Received on Account Total
PO 14.00	Paid Out Total
LOAN 50.00	Loan total
PICKUP 65.00	Pick Up Total
TAX 25.88	Tax Total
TL HR 2:32	Total Working Hour
IT /HR 61.67	Item Count per Hour
NS /HR 104.00	Net Sale per Hour
CUS/HR 18CU	Customer Count per Hour
IT/CUS 3.49	Item Count per Hour
NS/CUS 5.90	Net Sale per Customer
NOSALE 3	No-sale Count
0606Z	Individual Cashier Reset Count
0226 11:34TM	

Hourly Reset Report Sample

```
┌─────────────────────┐
│                     │
│   TEC  STORE        │
│   1343 PEACH DRIVE  │
│   PHONE: 87-6437    │
│                     │
│  Thank you          │
│            Call again│
│                     │
│                     │
│   05-15-86   #123456│
│                     │
│        Z10          │
│  ⌐08:00             │
│  ⌐12:00        91   │
│     32CU     217.75 │
│  ⌐15:00        24   │
│      5CU      19.46 │
│  ⌐19:00        70   │
│     16CU      75.41 │
│  0001Z              │
│                     │
│         0227 11:35TM│
│                     │
└─────────────────────┘
```

Up to 8:00 (from 19:00 of the previous day) ... No sales were recorded.
8:00 to 12:00
   Customer Count / Sales Total
12:00 to 15:00
   Customer Count / Sales Total
15:00 to 19:00
   Customer Count / Sales Total
Hourly Reset Count

DEPARTMENT READ AND RESET

Individual Department Read (Mode Lock: X, depress the required [DEPT] key(s), [ST] may be pressed for subtotal, depress [AT/TL] to end.)

TEC STORE 1343 PEACH DRIVE PHONE: 87-6437				

Thank you
Call again

05-15-86   #123456

X

VEGETABL	22	Dept.Name / Item Count	[DEPT: VEGETABL]
	31.40	Sales Total	
FRUIT	9	Dept.Name / Item Count	[DEPT: FRUIT]
	22.05	Sales Total	
MEAT	18	Dept.Name / Item Count	[DPET: MEAT]
	83.40	Sales Total	
SUBTL	49	-- Subtotal of VEGETABL, FRUIT,	[ST]
	136.85	. and MEAT depts.	
FISH	7	.	[DEPT: FISH]
	20.10	.	
DAIRY	11	.	[DEPT: DAIRY]
	18.57		
SUBTL	18	-- Subtotal of FISH and DAIRY depts.	[ST]
	38.67	.	
BAKERY	11	.	[DEPT: BAKERY]
	12.40	.	
CAN FOOD	18	.	[DEPT: CAN FOOD]
	19.65	.	
BTL FOOD	6	.	[DEPT: BTL FOOD]
	16.80	.	
SUBTL	35	-- Subtotal of BAKERY, CAN FOOD, and	[ST]
	48.85	BTL FOOD depts.	
TOTAL	102	-- Total of all the depts. read	[AT/TL]
	224.37	in this report	

0206 11:04TM

All Department Reset Report Sample

```
    TEC  STORE
   1343 PEACH DRIVE
    PHONE: 87-6437

Thank you
           Call again


 05-15-86    #123456

        Z 1 1
VEGETABL        22
   11.02%       31.40
FRUIT            9
   7.74%        22.05
MEAT            18
   29.27%       83.40
FISH             7
   7.05%        20.10
DAIRY           11
   6.52%        18.57
BAKERY          11
   4.35%        12.40
CAN FOOD        18
   6.90%        19.65
BTL FOOD         6
   5.90%        16.80
DRINK           39
   13.51%       38.50
BTL DEPO        37
   2.16%         6.15
SNACK            2
   1.94%         5.53
SPICE            0
   0.00%         0.00
DP13             3
   1.47%         4.20
DP14             2
   2.18%         6.20
DP15             0
                 0.00


TOTAL          185
               284.95
-TOTAL           0
                 0.00


GP01            11
   18.74%
                10.40

TOTAL          185
               284.95
0001Z

JONES   0230 11:36TM
```

Dept. Name / Item Count
  Sales Ratio / Sales Total

Positive Depts Total

Negative Depts Total

Department Group and Major Group Report
(Same as the report described on page 72)

All Department Reset Count

```
        TEC  STORE
        1343 PEACH DRIVE
         PHONE: 87-6437

   Thank you
                Call again


    05-15-86    #123456

           X07
   MEAT                          Department Name
           15%        12.51       Gross Profit Rate (preset) / Gross Profit Amount (resulted)
   DRINK
           18%         6.93
   CAN FOOD
           25%         4.91
   DAIRY
           20%         3.71
   BTL FOOD
           21%         3.52
   VEGETABL
           10%         3.14
   BAKERY                         NOTE: Each department is outputted in the
           23%         2.85              order of the Gross Profit Amount.
   FISH
           14%         2.81
   FRUIT
           12%         2.64
   DP 14
           19%         1.17
   SNACK
           17%         0.94
   DP 13
           15%         0.63

   TOTAL
           16.06%      45.76     ] Total Profit Amount resulted and Total Gross Profit Rate resulted

              0192 10:51TM
```

Department Group and Major Group Read (Mode Lock: X, enter 8, depress [AT/TL].)

```
┌─────────────────────┐
│                     │
│   TEC  STORE        │
│   1343 PEACH DRIVE  │
│   PHONE: 87-6437    │
│                     │
│ Thank you           │
│           Call again│
│                     │
│                     │
│  05-15-86   #123456 │
│                     │
│       X08           │
│ GP01          · 31  │
│    18.76%       53.45│
│ GP02          25    │
│    36.32%      103.50│
│ MGP1          56    │
│    55.08%      156.95│
│                     │
│ GP03          11    │
│     6.52%       18.57│
│ GP04          11    │
│     4.35%       12.40│
│ GP05          24    │
│    12.79%       36.45│
│ GP06          76    │
│    15.67%       44.65│
│ GP07           2    │
│     1.94%        5.53│
│ MGP2          124   │
│    41.27%      117.60│
│                     │
│ GP08           5    │
│     3.65%       10.40│
│ MGP3           5    │
│     3.65%       10.40│
│                     │
│ TOTAL         185   │
│               284.95 │
│                     │
│         0194 10:52TM│
│                     │
└─────────────────────┘
```

Group Name / Item Count
   Sales Ratio / Sales Total

-- Major Group Name / Item Count (Total of GP01 and GP02 in this sample)
   Sales Ratio / Sales Total

-- Major Group Name / Item Count (Total of GP03 to GP07 in this sample)
   Sales Ratio / Sale Total

-- Major Group Name / Item Count (Total of GP08 in this sample)
   Sales Ratio / Sales Total

Total of all Department Groups

PLU READ AND RESET

Individual PLU Read

Zone PLU Read or Reset

(Read Report Sample)

```
   TEC  STORE
    1343 PEACH DRIVE
    PHONE: 87-6437

Thank you
              Call again


  05-15-86    #123456

         X
Milk-L          1
05000001        1.25
Milk-S          0
05000002        0.00
SUBTL           1
                1.25
SoftRoll        0
06000003        0.00
HardRoll        3
06000004        0.60
SUBTL           3
                0.60

TOTAL           4
                1.85

        0207  11:05TM
```

Mode Lock: X
  Enter the required
  PLU Code, depress
  [PLU] (repeatable).
  [ST] may be used
  for subtotal.
  [AT/TL] to end.

PLU Name / Item Count
PLU Code / Sales TL

Subtotal

Subtotal

Total of all the PLUs
read in this report

```
   TEC  STORE
    1343 PEACH DRIVE
    PHONE: 87-6437

Thank you
              Call again


  05-15-86    #123456

        X 14
06000000~06999999
WhiBread        3
06000001        3.60
RyeBread        2
06000002        2.40
HardRoll        3
06000004        0.60

TOTAL           8
                6.60

        0202  11:01TM
```

Mode Lock: X (or Z)
  Enter the PLU code
  to start the zone,
  depress [0/FOR].
  Enter the PLU code
  to end the zone,
  depress [PLU].

Zone-start PLU Code
Zone-end PLU Code

Total of all the PLUs
in the zone.

Sorted PLU Read or Reset

(Read Report Sample)

```
     TEC STORE
    1343 PEACH DRIVE
    PHONE: 87-6437


Thank you
            Call again


  05-15-86   #123456

       X 14
   ........2
RyeBread        2
06000002      2.40
Soup Can        9
07000002      4.05
KiwiJam         2
08000002      3.80
7-up           23
09000002     18.40


TOTAL          36
             28.65

        0203 11:02TM
```

SAMPLE OPERATION

|.|.|.|.|.|.|2|
         ↓
       [PLU]

Sort PLU Code

Total of all the PLUs
read in this report.

PLUs with sales data "0"
are skipped in PLU reports.

All PLU Read or Reset (Mode Lock: X or Z, depress [PLU].)

(Reset Report Sample)

```
     TEC STORE
    1343 PEACH DRIVE
    PHONE: 87-6437


Thank you
            Call again


  05-15-86    #123456

       Z 14
Tomato          3
01000001      0.50
Beef         6.00LB
03000001     36.00
Milk-L          1
05000001      1.25
Egg             7
05000021      1.75
WhiBread        3
06000001      3.60
RyeBread        2
06000002      2.40
HardRoll        3
06000004      0.60
Tuna Can        6
07000001      3.00
Soup Can        9
07000002      4.05
StrwbJam        1
08000001      1.80
KiwiJam         2
08000002      3.80
Coke           10
09000001      8.00
7-up           23
09000002     18.40
Bottle A       33
10000001      1.65


TOTAL         103
             86.80

0001Z


JONES    0229 11:35TM
```

— Sales Weight for Scale
  PLU instead of Item
  Count for Non-scale PLU

Total of all PLUs

PLU Reset Count

Individual PLU Stock Read
(Mode Lock: X, depress [AMT], enter the required
PLU code, depress
[PLU] (repeatable),
depress [AT/TL]
to end.)

```
      TEC  STORE
     1343 PEACH DRIVE
      PHONE: 87-6437


   Thank you
              Call again



    05-15-86    #123456

           X
   Soup Can
   07000002          491

   TOTAL             491

            0205 11:03TM
```

PLU Name
 PLU Code / Remaining
            Stock Q'ty
Total Stock Q'ty
of all the PLUs read
in this report

Non-active PLU Read (Mode Lock: X, enter 5, depress
                         [#], depress [PLU].)

```
      TEC  STORE
     1343 PEACH DRIVE
      PHONE: 87-6437


   Thank you
              Call again



    05-15-86    #123456

          X16
   Potato
   01000002
   Orange
   02000001
   Lemon
   02000002
   Apple
   02000003
   Pork
   03000002
   Mutton
   03000003
   Salmon
   04000001
   Cod
   04000002
   Shrimp
   04000003
   Milk-S
   05000002
   Cheese
   05000011
   SoftRoll
   06000003
   Pickles
   08000011
   P.Chips
   11000001
   Nutmeg
   12000001

            0220 11:20TM
```

PLU Name
 PLU Code

All PLU Stock Read
(Mode Lock: X, depress [AMT], and then [PLU].)

```
      TEC  STORE
     1343 PEACH DRIVE
      PHONE: 87-6437


   Thank you
              Call again



    05-15-86    #123456

          X15
   Tuna Can
   07000001         1244
   Soup Can
   07000002          491

   TOTAL            1735

            0204 11:03TM
```

Total Stock Quantity
of all Stock-type PLUs

Best Selling Depts in Quantity Report Sample   **Best Selling PLUs in Quantity Sample**

```
   TEC  STORE
   1343 PEACH DRIVE
    PHONE: 87-6437

Thank you
            Call again


05-15-86   #123456

        X16
#1
DRINK          39
   1         . 38.50
BTL DEPO       37
   2           6.15
VEGETABL       22
   3          31.40

TOTAL          98
 26.69%       76.05

        0209 11:12TM
```

SAMPLE OPERATION

Mode Lock: X, 1 [#] 3 [AT/TL]
                          └─ Ending Rank No.

Analysis Type (#1 for "Best Selling in Quantity")
Rank No.1 Dept. Name / Item Count (Sales Quantity)
    Rank No. / Sales Amount
Rank No.2 Dept.

Rank No.3 Dept.

Total Item Count of all the PLUs read in this report
    Sales Ratio to all depts total / Total Sales Amount of all the
                                          PLUs read in this report

Best Selling PLUs in Quantity Report Sample

```
   TEC  STORE
   1343 PEACH DRIVE
    PHONE: 87-6437

Thank you
            Call again


05-15-86   #123456

        X16
#1  BAKERY
WhiBread        3
   1          3.60

TOTAL           3
 54.55%       3.60

        0214 11:17TM
```

SAMPLE OPERATION

Mode Lock: X, 1 [DEPT: BAKERY] 1 [PLU]
                      │   └─ Ending Rank No.
                      └─Required Link Department Key

Analysis Type (#1 for "Best Selling in Quantity") / Linked Dept Name
Rank No.1 PLU Name / Item Count (Sales Quantity)
    Rank No. / Sales Amount

Total Item Count of all the PLUs read in this report
    Sales Ratio to all PLUs linked to the same dept. / Total Sales Amount
                                               of all the PLUs
                                               read in this report

Reset Report Sample

```
        TEC  STORE
        1343 PEACH DRIVE
        PHONE: 87-6437


Thank you
                Call again


05-15-86     #123456

            ZO3
GT                              Grand Total (non-resettable)
                    327.09
NET GT                          Net GT (non-resettable)
                    306.52
TRAIN                .          Training Mode GT (non-resettable)
                    0.00
GS                  197         Gross Sale Item Count
                    327.09      "      "   Amount
%+                  4           Percent Charge Count
                    2.11        "         "    Total
NS1                 185         Net Sale (Without Tax) Item Count
                    287.06      "    "     "      "    Amount
TAX1                25.88       Tax 1 Total
NS2                 185         Net Sale (With Tax) Item Count
                    312.94      "    "    "    "   Amount
%-                  1           Percent Discount (on Subtotal) Count
                    0.32        "          "           "      Total
V.CPN               0           Vendor Coupon Count
                    -5.00       "      "     Total
DISC                1           Dollar Discount Count
                    0.50        "        "     Total
BTR                 1           Bottle Return (Inside-sale Type) Item Count
                    0.60        "       "           "        "    Total
TOTAL               53CU        All Media Sales Customer Count
                    306.52      "    "       "    Total
CASH                27CU        Cash Sales Cutomer Count
                    157.86      "    "    Total
CHECK               3CU         Check Sales Customer Count
                    28.46       "    "    Total
Chg                 5CU         Charge Sales Customer Count
                    35.42       "      "    Total
MISC                1CU         Misc Sales Customer Count
                    6.11        "    "    Total
CRTTL1              1CU         Credit 1 Media Sales Customer Count
                    3.55        "        "      "    Total
CRTTL2              0CU         Credit 2 Media Sales Customer Count
                    0.00        "        "      "    Total
CRTTL3              0CU         Credit 3 Meida Sales Customer Count
                    0.00        "        "      "    Total
FS TL               2CU         Food Stamp Sales Customer Count
                    16.72       "     "     "    Total
R/A                 2           Received-on-Account Count
                    13.50             "          Total
PO                  2           Paid-Out Count
                    14.00           "    Total
```

-- To be continued --

LOAN	50.00	Loan Total
PICKUP	65.00	Pick Up Total
CAID	113.11	Cash-in-drawer Total
CKID	5	Check-in-drawer Count
	92.00	" Total
MISCID	1	Misc-in-drawer Count
	7.00	" Total
FSID	4	Food Stamp-in-drawer Count
	28.00	" Total
FS CG	1.28	Food Stamp Change Total (Cash-paid Change Portion but not in Food Stamp)
CORR	3	VD 1 (Item Correct on Positive Depts/PLUs) Count
	4.90	" Total
VOID	1	VD 2 (Void on Positive Depts/PLUs) Count
	1.50	" Total
MS VD	0	VD 3 (Item Correct or Void on other items) Count
	0.00	" Total
%-	1	Percent Discount (on Items) Count
	0.23	" " Total
S.CPN	1	Store Coupon Count
	1.00	" " Total
-DP TL	0	Negative Depts Item Count
	0.00	" " Total
RTN	8	Returned Merchandise Item Count
	6.05	" " Total
-TAX	0.47	Negative (or returned) Tax Total
-SALE	5CU	Audaction (Negative-balanced Sales) Customer Count
	5.32	" " Total
REG-	0	Negative Mode Count
	0.00	" " Total
TF TL	21.94	Transfer Balance (non-resettable)
TF+GT	23.16	Transfer Positive (non-resettable)
TF-GT	1.22	Transfer Negative (non-resettable)
TF+	23.16	Transfer Positive (Daily-reset)
TF-	1.22	Transfer Negative (Daily reset)
PBTL	14CU	Previous Balance Sale Customer Count
	58.40	" " " Total
PBR/A	39.75	" " Payment Total
PBPO	3.29	" " Refunded Total
TXBL1	258.53	Taxable 1 Total
SI1 TL	0.41	Selective Itemizer 1 Total
TAX EX	2CU	Tax Exempted Customer Count
TAX1EX	8.90	Tax 1 Excepted Sales Total
TRDSTP	11.43	Trade Stamp Total Issued
IT/CUS	3.49	Item Count per Customer
NS/CUS	5.42	Net Sale per Customer
NOSALE	3	No-sale Count
VALCTR	9	Validation Count
ABC	2	Credit Card Card Company Name /' Count
	14.70	Sales Total
CRT20	3	Other Credit Card Company
	20.72	
0001Z		Financial Reset Count

0233 11:39TM

GT REPORTS (The print form and items are the same as its corresponding daily report, except the following report header portion. Please also note that some items provided in daily reports are not provided in GT reports.)

All Department GT Read
All Department GT Reset

```
     TEC  STORE
     1343 PEACH DRIVE
     PHONE: 87-6437

Thank you
              Call again


05-15-86    #123456

     GTX11

     GTZ11
```

Department Gross Profit
GT Read

```
     TEC  STORE
     1343 PEACH DRIVE
     PHONE: 87-6437

Thank you
              Call again


05-15-86    #123456

     GTX07
```

Department Group and
Major Group GT Read

```
     TEC  STORE
     1343 PEACH DRIVE
     PHONE: 87-6437

Thank you
              Call again


05-15-86    #123456

     GTX08
```

Financial GT Read
Financial GT Reset

```
     TEC  STORE
     1343 PEACH DRIVE
     PHONE: 87-6437

Thank you
              Call again


05-15-86    #123456

     GTZ03

     GTX03
```

Credit Card Company Sales
GT Read

```
     TEC  STORE
     1343 PEACH DRIVE
     PHONE: 87-6437

Thank you
              Call again


05-15-86    #123456

     GTX06
```

Department ABC ANALYSIS
GT Read

```
     TEC  STORE
     1343 PEACH DRIVE
     PHONE: 87-6437

Thank you
              Call again


05-15-86    #123456

     GTX16
```

REMOTE SLIP PRINTER (HARDWARE OPTION) OPERATION

The TEC Remote Slip Printer DRS-107 may be connected to the MA-1190 series ECR as an optional device. The Remote Slip Printer will operate printing if a slip is properly inserted, regardless of the Mode Lock position of the ECR.

1. **The remote slip printer will automatically activate printing when the slip is properly set to the printer table.**

2. **The following are selective status programmable relating to the remote slip printer:**

   SYSTEM OPTION ADDRESS No.11 (REMOTE SLIP CONTROL)

   Bit 1: Total Line and Trailer Line Print

   > RESET: Print only once (SINGLE SLIP PRINT)
   > SET: Print the Total Line and Trailer Line (Consecutive No., Time, Date, and Register No.) twice (DOUBLE SLIP PRINT) except for a sale including a previous balance.

   Bit 4: Remote Slip Print Compulsory for every sale with preivous balance (under PREVIOUS BALANCE MANUAL ENTRY type)

   > RESET: FREE (Not Compulsory)
   > SET: COMPULSORY

   Bit 5: Remote Slip Print Compulsory for every sale with previous balance (under CUSTOMER FILE type)

   > RESET: FREE (Not Compulsory)
   > SET: COMPULSORY

   Bit 6: Remote Slip Print Compulsory for any sale

   > RESET: FREE (Not Compulsory)
   > SET: COMPULSORY (except that Media Cashing With No Purchase, No-sale, Cashier Sign-On/Off, Training Sign-On/Off operations will not be compulsory.)

   Bit 7: INPS (Items Not Print on Slip) Selection

   > RESET: NORMAL PRINT (No INPS status)
   > SET: Follow Bit 8 status.

   Bit 8: INPS (Items No Print on Slip) Type Selection

   > RESET: INPS 1 STATUS
   > All itemized entries except pre-select PB+, [Chg], [R/A] totals (R/A items will be non-print anyway), and [TRF] will be non-print. (in case of PB MANUAL ENTRY type)
   > All Itemized entries except pre-select File Customer Code plus Previous Balance, [Chg], [R/A] totals (R/A items will be non-print anyway), and [TRF] will be non-print. (in case of CUSTOMER FILE type)

SET: INPS 2 STATUS
       [TRF] will only be printed. All other items will
       be non-print. (in case of PB MANUAL ENTRY type)
       The Customer File Code and [TRF] will only be
       printed. All other items will be non-print. (in
       case of CUSTOMER FILE type)

4. **The gap of the slip inlet is usually opened, and the slip may be inserted or withdrawn freely.**

   When a slip is properly set to the remote slip printer and the ECR is operated, the gap will be closed and printing will be performed. When the sale is finalized, the receipt is issued and then the gap of the DRS-107 will be opened to allow the slip withdrawal. (The gap keeps closed during registration.)

5. **Printing on the remote slip will be performed alteranately with printing on the receipt/journal of the ECR.**

6. **The EJECT key on the DRS-107 may be used to open the closed gap in order to withdraw the slip and skip unnecessary item print. The EJECT key will be disregarded if the slip is set and the ECR receipt/journal printer is in a printing action.**

7. **Printing Position and Slip Size:**

```
   ┌──────────────────────────────────────────────────┐
   │         |←─88.4mm (42 digits)─→|←─7.8mm─→|        │
   │         ┌──────────────────────┐                  │
   │         Print Space                               │
   │              .                                    │
   │              .                                    │
   │              .                                    │
   │              .                                    │
   │              .                                    │
   │              .                                    │
   │              .                                    │
   │         |Last Line Position|        ↑            │
   │                                      |            │
   │                              21.2mm minimum*      │
   │                                      |            │
   │                                      ↓            │
   └──────────────────────────────────────────────────┘
```
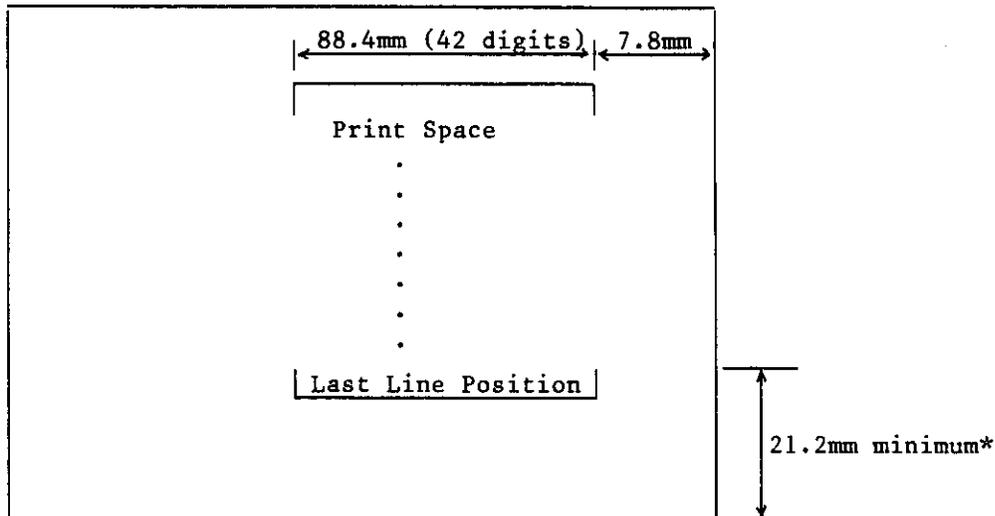
       * NOTE: The space below the "Last Line Position" (i.e. the 21.2mm
                area at the bottom) cannot be printed.

As typical applications of remote slip printing, print samples of endorsement, invoice, and customer file are placed on the following pages.

```
TEC STORE
1343 PEACH DRIVE
PHONE: 87-6437

Thank you
          Call again


05-15-86   #123456

VEGETABL    $2.50 TF
FRUIT       $6.50 TF
FISH        $4.00 TF
TAX         $1.30
TOTAL     $14.30
CHECK      $15.00
CHANGE      $0.70


ITEM    3
White   0172 10:16TM
```

After the sale is finalized
with the required media, the check
or the slip is set to the Remote
Slip Printer.
Check No. "1234567890123456" is entered
            and then [CHECK NO.] Key is depressed.

```
CHECK%1234567890123456
TEC STORE
1343 PEACH DRIVE, TORRANCE,
CALIFORNIA 90501
          TOTAL       $14.30
017201CL  CHECK       $15.00
 #123456 L05-15-86   10:18TM
```

— Check No. Print Line (Non-print if not entered)

Endorsement Message Print Lines
(Message progrogrammable; or non-print)

— Sale Total Print Line (or non-print)
— Consecutive No., Clerk or Cashier ID, Media
— Register No., Date, Time

NOTE: As for selective options for Endorsement Print, ask your TEC representative.
       Also refer to the PROGRAMMING MANUAL for the Endorsment Message Programming.

```
    TEC STORE
  1343 PEACH DRIVE
  PHONE: 87-6437

Thank you
          Call again


05-15-86    #123456

#1442
VEGETABL    $1.30 TF
      6X    4.80/  6
7-up        $4.80 T
      6X    0.30/  6
Bottle At   $0.30
SUBTL       $6.40
%+
      10%   $0.64
TAX         $0.61
Chg         $7.65

TRDSTP      $0.48
ITEM   13
White   0174 10:25TM
```

```
                         #1442
                         VEGETABL    $1.30 TF
       6X    4.80/  6    7-up        $4.80 T
       6X    0.30/  6    Bottle At   $0.30
                         SUBTL       $6.40
             10%         %+          $0.64
                         TAX         $0.61
                         Chg         $7.65
                         TRDSTP      $0.48
                         ITEM   13
05-15-86    #123456      White   0174 10:25TM
```

```
      TEC STORE
    1343 PEACH DRIVE
    PHONE: 87-6437

Thank you
               Call again


  05-15-86     #123456

#3421
PB+          $0.00
VEGETABL     $3.50 TF
MEAT         $2.40 TF
TAX          $0.59
Chg          $6.49

N-BAL        $6.49

ITEM    2
White    0180 10:36TM
```

```
  05-15-86     #123456

#3421
PB+          $6.49
       3X      0.45  a
Soup Can     $1.35 TF
TAX          $0.14
Chg          $7.98

N-BAL        $7.98

TRDSTP       $0.14
ITEM    3
White    0181 10:37TM
```

```
  05-15-86     #123456

#3421
PB+          $7.98
Chg          $7.98

R/A          $7.98
CATEND      $10.00
CHANGE       $2.02

N-BAL        $0.00

ITEM    0
White    0182 10:38TM
```

```
#3421
PB+          $0.00
VEGETABL     $3.50 TF
MEAT         $2.40 TF
TAX          $0.59
Chg          $6.49
N-BAL        $6.49
ITEM    2
05-15-86   #123456   White    0180 10:36TM
#3421
PB+          $6.49
   3X    0.45   a    Soup Can     $1.35 TF
TAX          $0.14
Chg          $7.98
N-BAL        $7.98
TRDSTP       $0.14
ITEM    3
05-15-86   #123456   White    0181 10:37TM

#3421
PB+          $7.98
Chg          $7.98
R/A          $7.98
CATEND      $10.00
CHANGE       $2.02
N-BAL        $0.00
ITEM    0
05-15-86   #123456   White    0182 10:38TM
```

PLU KEYBOARD (HARDWARE OPTION)

It has 130 keys, each of which corresponds to a PLU code. By simply depressing a key, the " |PLU Code|[PLU]" entry sequence is made. Thus it simplifies PLU operations and saves time. The PLU Keyboard will be connected to the ECR with a cable and may be placed on the check-out counter table near the ECR.

As an additional function, the PLU Keyboard may be used to enter alpha/numeric characters just as on the ordinary typewriter keyboard, instead of entering 3- or 4-digit character code on the ECR, in various programming operations.

CUTTER BLOCK OPEN DETECTOR AND PAPER NEAR-END DETECTOR

1. CUTTER BLOCK OPEN DETECTOR

(1) This detector is activated when the Cutter Block of the Printer is opened. It is provided to protect your hands and fingers from injury and also to protect the printer itself.

(2) While the Block is opened, none of the keys (including [RF] and [JF]) will be accepted and the AMOUNT portion of the display will keep flickering

(3) When the Block is closed and the [C] key is depressed, the display flickering will be cleared and key-in operations will be accepted. If any printing has been under way and stopped due to the Block opening, the printing will again be started.

(4) If the Block is opened during printing, the printing will immediately be stopped.

2. JOURNAL AND RECEIPT PAPER NEAR-END DETECTOR

(1) This detector is activated when either the journal or receipt roll is coming near the end. It is provided to prompt the operator to replace the old paper roll with a new one.

(2) When the paper roll comes near the end (or the paper has not been set properly), no key operation (except [RF] and [JF]) will be accepted and the AMOUNT portion of the display will keep flickering.

(3) When a new paper roll is set, only the [RF] and [JF[keys are allowed to operate. Next, when the [C] key is depressed, the display flickering will be cleared and normal key-in operations will be accepted. If any printing has been suspended, it will continue printing.

(4) If this detector sensed a paper near-end condition during printing, the printer will stop after the current line printing is completed.

(5) The [RF] and [JF] keys are operative regardless of the detector ON/OFF condition.

(6) If the [C] key is depressed in the paper near-end condition, it will be ignored. The [C] key depression will be effective to clear the display flickering only after the new paper roll is set.

ECR PRINTER MOTOR LOCK AND REMOTE SLIP PRINTER MOTOR LOCK DETECTORS

1. PRINTER MOTOR LOCK DETECTOR

(1) This detects the ECR printer motor-lock condition caused by some trouble.

(2) When such a condition is detected, the front display indicates "Error" and none of the keys (including [RF] and [JF]) will be accepted.

(3) To regain the normal condition, turn the power of the ECR to OFF, remove the cause of the motor-lock condition, and then turn the power to ON again.

2. REMOTE SLIP PRINTER MOTOR LOCK DETECTOR

(1) This detects the remote slip printer motor-lock condition caused by some trouble.

(2) When such a condition is detected, the front display indicates "Error" and none of the keys (including [RF] and [JF]) will be accepted.

(3) To regain the normal condition, turn the powers of the ECR and the remote slip printer to OFF, remove the cause of the motor-lock condition, and then turn the powers to ON again.

* If the cause can not be found in the remote slip printer and only the ECR may be required to work without the remote slip printer temporarily, remove the remote slip printer cable from the ECR, and turn the power of the ECR to ON.

PAPER ROLL REPLACEMENT AND OTHER MAINTENANCE OPERATIONS

Fig. 1

Fig. 2

Paper End   left-side

Fig. 3

Fig. 4

INSTALLING THE RECEIPT PAPER
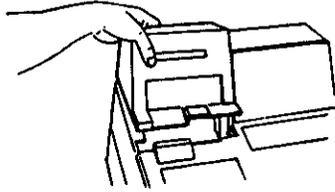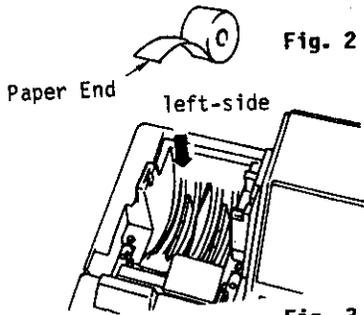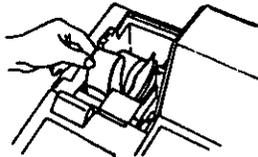
1. Turn the Mode Lock to the "REG" position.
2. Remove the Receipt Cover by pulling it upward (Fig. 1).
3. Set the new paper roll in the receipt roll holder with the paper end fed from the bottom as shown in Fig. 2 (Fig. 3).
4. Insert the paper end into receipt inlet as holding the [RF] key pushed down (Fig. 4).
5. When the paper comes out of the receipt outlet for approx. 5cm (or 2 inches), release the [RF] key (Fig. 5).
6. Attach the Receipt Cover. Meanwhile, the paper end must be seen outside the cover.
7. Press the [C] key to clear the paper-end condition, and depress the [NS] key and cut the issued receipt to check if the paper has properly been set.

Receipt Outlet   5cm
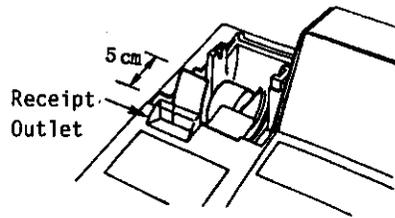
Fig. 5

REMOVING THE RECEIPT PAPER

1. Remove the Receipt Cover by pulling it upward (Fig. 1).
2. Pull the Free Lever frontward while pulling the old paper core upward to remove the remaining paper tail (Fig. 6).

Free Lever
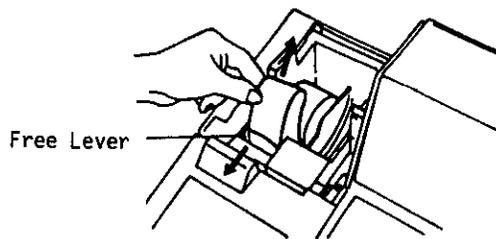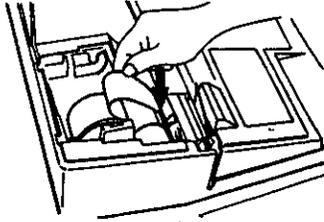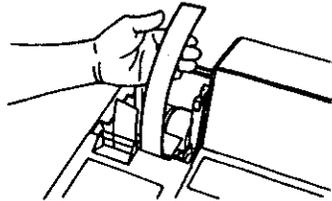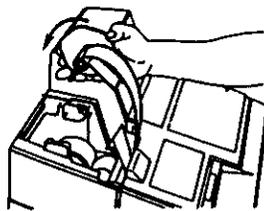
Fig. 6

Fig. 7

Fig. 8

Fig. 9

Fig. 10
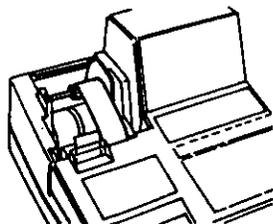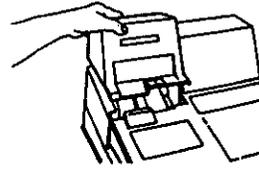
INSTALLING THE JOURNAL PAPER

1. Turn the Mode Lock to the "REG" position.
2. Remove the Receipt Cover by pulling it upward (Fig. 1 on the previous page).
3. Remove the Journal Winding Reel.
4. Set the new paper roll in the journal roll holder (righthand side) with the paper end fed from the bottom (Fig. 7).
5. Insert the paper end into the journal inlet while holding the [JF] key pushed down (Fig. 8).
6. When the paper comes out of the journal outlet for approx. 20cm (or 8 inches), release the [JF] key (Fig. 9).
7. Wind up the paper end on the Journal Winding Reel two or three times as shown in Fig. 10.
8. Set the Journal Winding Reel to the holder (Fig. 11).
9. Attach the Receipt Cover (Fig. 12).
10. Depress the [C] key before starting operations.

REMOVING THE JOURNAL PAPER

1. Remove the Receipt Cover by pulling it upward (Fig. 1 on the previous page).
2. Depress the [JF] key to wind up enough portion of the journal paper, and then tear off the paper, holding the Journal Winding Shaft.
3. The wound-up portion of the paper can easily be removed from the Winding Shaft by pulling it side way (Fig. 13).
4. If enough paper remains on the roll, follow Steps 6 through 10; if paper is running out, follow Steps 1 through 10 in "INSTALLING THE JOURNAL PAPER" above.

Fig. 11

Fig. 12

Fig. 13

REPLACING THE INK RIBBON

When the receipt and journal print is too light, replace the ink ribbon in the following manner.

Removing the Ribbon

1. Turn the Power Switch to OFF.
2. Remove the Ribbon Cover. (Press the side inward and the hook will be unlocked.) (Fig. 14)
3. Open the Cutter Block by pulling it upward while pressing the leftside lever outward. (Fig. 15 and Fig. 16)
4. Remove the Ink Ribbon by lifting up the ribbon spools (Fig. 18).

Installing a new Ribbon

1. Set the ribbon spools so that the ribbon will be wound to the direction shown by the arrows respectively. Meanwhile, let the ribbon go through the Ribbon Guides, the Tension, and the Dot Head Ribbon Guide (Fig. 18 and Fig. 19).
2. After setting, make sure that the ribbon properly goes through respective parts required, by turning a ribbon spool several turns.
3. Close the Cutter Block. Make sure that the leftside lever has locked the block.
4. Turn the Power Switch to ON.
5. Depress the [C] key. The flickering display will stop and be lit steadily.
6. Attach the Ribbon Cover.
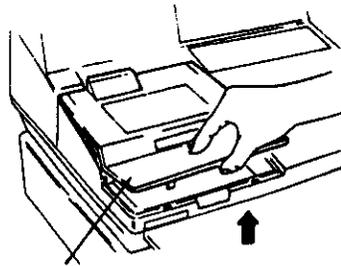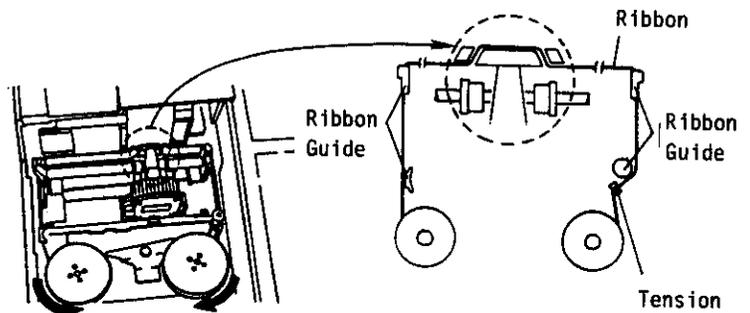
Ribbon Cover

Fig. 14

Fig. 15

Fig. 16

Fig. 17

Ribbon

Ribbon Guide

Ribbon Guide

Tension
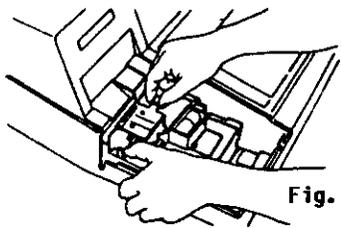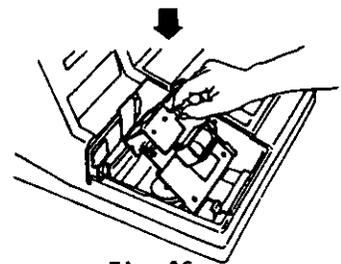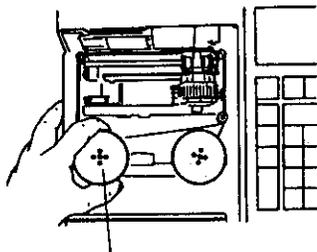
Fig. 18

Fig. 19

CLEANING THE VALIDATION SLIP DETECTOR

Journal

Slip Detector

Receipt

Ribbon

Dot Head **Fig. 20**

Brush

Slip Detector

Fig. 21

Fig. 22

Drawer Release Key

Fig. 23

Clearn the validation slip detector when replacing the receipt, journal paper, or ink ribbon.

If the slip detector has not be cleaned for a long period of time, keys may fail to be accepted on the ECR. In such a case, the "SLP" lamp will be kept on. This is the same condition as a slip has been inserted, because of paper dust deposited on the slip detector.
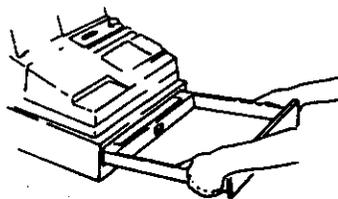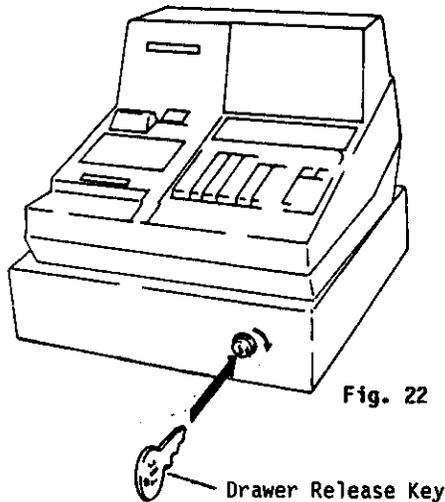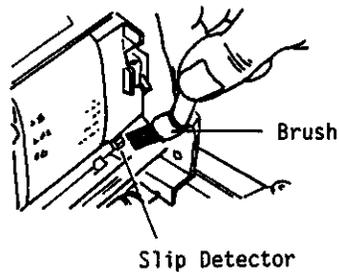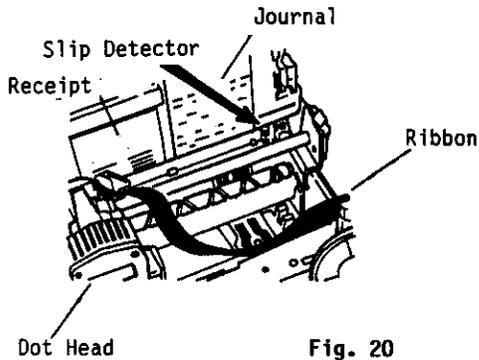
1. Turn the Power Switch to OFF.
2. Remove the Ribbon Cover (see the pevious page).
3. Open the Cutter Block (see the previous page).
4. The slip detector is indicated by the arrow in Fig. 20. If the dot head is located on the right side of the machine, close the Cutter Block and turn the power on and off again, and the dot head will move and stop on the left side.
5. Clean the slip detector with a brush. After cleaning, make sure that the Ink Ribbon is properly mounted on the Ribbon Guides. (Fig. 21)
6. Close the Cutter Cover. (Securely hook the cover on the left side; see the previous page.)
7. Turn the Power Switch to ON.
8. Depress [NS] key to issue a receipt. Check that the receipt is printed normally.
9. Attach the Ribbon Cover.

OPENING THE DRAWER

The drawer opens automatically when a registration is finalized. In the event of a power failure or a trouble, however, open the drawer in the following manner.

Insert the Drawer Release Key into the Drawer Release Lock and turn the key by 45 degrees clockwise (Fig. 22)

REMOVING THE DRAWER

1. Lift the drawer up and pull it out.
2. Then let it go down and pull it out again, and it will be removed.
3. When getting back the drawer, fit its rollers on the rails of the register and push it all the way in. (Fig. 23)

WHEN A POWER FAILURE OCCURS ...

If a power failure occurs, all sales data stored in memory are automatically protected by the battery installed in the ECR. The battery is rechargeable and it is recharged when the AC power returns. As the power returns, the register revives to continue the work. However, please note the following phenomena to occur on the register when the power is regained:

1. The printer will work to print the entered data without failure after the power recovery, if any data has been printing before the power failure. However, one extra line may be fed on the power recovery on depending on the power failure timing.

2. When the power is recovered, the register will display the last item entered before the power failure if the item was entered thorugh a motorized key (such as [DEPT], media keys, etc.). In this case, continue the registering operation. However, if the register displays "FAIL" when the power is restored, it indicates that the last item entry was not completed (i.e., only numeric keys and/or a declaration or modification key such as [RTN MDSE] were operated but not any motorized key). In this case, first depress the [C] key to clear the "FAIL" condition, and then do the registering operation again from the numeric or declaration key entry. In the event of a power failure and its recovery, be sure to check the receipt before it is handed to the customer.

SPECIFICATIONS

SIZE .... 460mm(width) x 445mm(depth) x 405mm(height)

WEIGHT .... 22 kg

POWER REQUIRED .... AC 117V   50/60Hz

POWER CONSUMED .... 0.4A at 117V

AMBIENT TEMPERATURE .... 0°C to 40°C, 10% to 90% Releative Humidity

SIZE OF RECEIPT AND JOURNAL ROLL
                    .... 45mm(width) x 100mm(diameter)